

EDR RECORDS SERVICES, INC.

RECORDS PERTAIN TO: Hercules Marine Services Corporation

RECORDS FROM: Texas Natural Resource Conservation Commission

TYPE OF RECORDS: Investigation Records

CAUSE NO.: 96-G0201

DELIVER TO:

**William J. Eggleston
Taylor & Eggleston
4800 Three Allen Center 333 Clay Street
Houston, Texas 77002**

COPY

**VOLUME VI
PAGES 991 TO 1226**

2437 Bay Area Blvd., Ste. 228
Houston, Texas 77058
(281) 486-5531 * 800-876-3901

PERMITS VOL. II



TEXAS AIR CONTROL BOARD
PERMIT APPLICATION SUMMARY

DATE: 01-07-97
TIME: 18:16:15

PAGE: 1

***GENERAL PERMIT INFORMATION

PERMIT: 32763 ENGR: HAUER, KATHERINE /
ISSUED TO: HERCULES MARINE SERVICES CORPORATION
UNIT NAME: BARGE CLEANING & REPAIR
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR
LAT: 28-53-01 LONG: 095-17-17 REGION: 12 COUNTY: BRAZORIA
NEAR CITY: FREEPORT LOC: 906 HARLIN

GROUP: CHEM ID:BL0118

***PERMIT/SITE CONTACT INFORMATION:

PERSON: LARRY KALLINGER ADDR1: P.O. DRAWER 0
TITLE: MARINE MANAGER ADDR2:
CITY: FREEPORT STATE: TX ZIP: 77541 PHONE: (409)233-6371

** CONSTRUCTION **

TYPE APPL(C/S/X): (C)
APPL RECD : 05-04-93
DEFIC LTR SNT :
SUPP INFO REA :
SUPP INFO RECD :
APPL CMPLT :
COMP LTR SNT :
PUB NTC SNT :
PUB NTC PUB :
PUB HEAR (R/H) : ()
CNST TYPE(C/X/S): ()
DISP () :
CNST START DATE :

** OPERATING **

OPERATION START :
OPER APPL RECD :
OPER APPL CMPLT :
DISP(I/D): ()
OPR TYPE(R/S) : ()

* I= ISSUED S= DENIED *
* E= EXPIRED *
* C= CNST S= SPECIAL *
* X= EXEMPT R= OPER *

** CONTINUANCE **

NOTICE MAILED :
APPL RECD :
DEFIC LTR SNT :
SUPP INFO REA :
SUPP INFO RECD :
APPL CMPLT :
COMP LTR SNT :
PUB NTC SNT :
PUB NTC PUB :
PUB HEAR(R/H) : ()
DISP(I,D,E):() :

***EMISSIONS CHANGED :

***REMARKS:WITHDRAWN AT COMPANY REQUEST, 1-7-97.

***OTHER PERMIT DATES:

APP/PERMIT VOIDED: 01-07-97 REASON: CR CR-COMPANY REQUEST
APP ON HOLD UNTIL: REASON: DD-DATA DELAY
CONST STOPPED UNTIL: RE-REISSUED

VOID/HOLD CODES: PD-PLT DISMANTLED
TI-TIME EXPIRED
TD-TECH DIFFICULTY
NR-NO RESPONSE

***PERMIT TYPES/STANDARDS:

NEW MAJ SOURCE:> 100 TPY: SIC: 4491
MAJOR MODIFICATION: PORTABLE: RELATED PERMITS: SUFFIX REASON
NON-ATTAIN REVIEW: NSPS: TACB: CHG LOC:
INSIGNIFICANT EMISSIONS: YESHAP: PSD-TX: CHG OWN:
FUEL CONVERSION: TOXIC MATERIALS: STD EX NO.:

***AIR CONTAMINANT INFORMATION:

NAME CODE MAX ALLOWABLE RATE ACTUAL
LBS/HR TONS/YR TONS/YR

***ABATEMENT EQUIPMENT:

STATE OF TEXAS
COUNTY OF TRAVIS

I hereby certify that this is a true and correct
copy of a Texas Natural Resource Conservation
Commission document, which is filed in the
permanent records of the Commission.
Given under my hand and the seal of office on

Jimmie E. Savage, Custodian of Records
Texas Natural Resource
Conservation Commission

000991

06/05/96

PROJECT RECORD

14:19:35

Record No. 43911 GROUP: ~~CHEN~~ ^{KCH} TECHENGR: ~~CHEN~~ PROJ NUM : 32768
 DATE RECD: 06/04/96 COREENGR: SXR1/MTG1 ADMIN.COMP: 6/4/96 PROJ TYPE: CRVW
 DATE FEE : 06/04/96 FEE: \$ 450 STDY1/STDP : 0 PSD-TX-NO:
 REG 6 NOV: / / PRE-PERM: / / BD-ORD: - - DATE B.O.: / /
 ISSUED TO: HERCULES MARINE SERVICES CORPORATION

| | | | |
|----------------|-----------------|--------------------------|----------|
| CONTACT Name : | Thomas E. Hord | Mr./Miss/Ms. + Lastname: | Mr. Hord |
| CONTACT Title: | Vice President | | |
| CONTACT Mail1: | 906 Marlin | | |
| CONTACT Mail2: | | | |
| CITY, STATE : | Freeport, Texas | ZIP: | 77541- |

NEW JOBS: 30

City: FREEPORT

County: BRAZORIA

Account ID: BL-0118-V

Region: 12

UNIT (FACILITY)

Name: BARGE CLEANING & REPAIR

Type:

Capacity:

Units:

DEFICIENT letter: / / COMPLETE: / / DATE Complete letter: / /
 PROJECT DISPOSAL (Issue/Approve/Complete/Void/etc)

CHIEF SIGN = / / DISP CODE =
 DATE ISSUED = / / (Actual date)

NSPS =

NESHAPS . =

N.A.R. . =

Y/N=YES/NO

nonPSDmjr =

O=OFFSETS

STATUS:

HISTORY:

EDAYS = 1

CDAYS = 0

ODAYS = 0

as of 06/05/96

| No. | LBB TYPE ACTIVITY: | | LBB TYPE ACTIVITY: | | TELCONS | Other Misc. Action | |
|-----|--------------------|---------|--------------------|--|---------|--------------------|--------|
| | ACTIVITY--ACT CODE | | ACTIVITY--ACT CODE | | | MISC ACT--ACT CODE | |
| 1 | / / | | / / | | / / | 6/6/96 | RFC-SR |
| 2 | 7/10/96 | C: A-PN | / / | | / / | 6/6/96 | RFC-CH |
| 3 | / / | | / / | | / / | / / | |
| 4 | / / | | / / | | / / | / / | |
| 5 | / / | | / / | | / / | / / | |
| 6 | / / | | / / | | / / | / / | |
| 7 | / / | | / / | | / / | / / | |
| 8 | / / | | / / | | / / | / / | |
| 9 | / / | | / / | | / / | / / | |
| 10 | / / | | / / | | / / | / / | |

DATE RFC : / /

Note: Code "?" = Partial; "*" = Complete.

DATE PN : 7/10/96

DATE PUB: / /

DATE Rec'd PN/SIGN Cert.: / /

DATE PUBLIC MEETING REQUESTED : / /

DISPOSED on : / / by (PM, PH, W)

DATE PUBLIC HEARING REQUESTED : / /

DISPOSED on : / / by (PM, PH, W)

Related projects: (Excluding " , 0, C, D, F, H, M, W or X" as 1st digit)

| REC | ENGR | PROJNUM | TYPE | COMPANY NAME | PERMIT UNIT NAME | RECEIVED DISPOSE C |
|-----|------|---------|------|--------------|------------------|--------------------|
|-----|------|---------|------|--------------|------------------|--------------------|

000992

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

January 3, 1997

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

As you requested in your application withdrawal letter dated December 12, 1996, we are voiding the active Permit Application File No. 32768. We understand that the facility retains its grandfathered status and therefore does not require a permit at this time.

All records regarding this application will be retained in case you should wish to reactivate the project in the future; however, any future reactivation will require that you reapply under the requirements of 30 TAC Chapter 116 in effect at that time.

Thank you for informing us of the status of this application.

Sincerely,



Victoria J. L. Hsu, P.E.
Director
New Source Review Division

VH/kh/jb

cc: Ms. Karen Atkinson, Acting Regional Manager, Houston
Harry Walker, Ph.D., Walker, H. M. & Associates, Dickinson

000993

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
REQUEST FOR REFUND

INSTRUCTIONS: Form must be completed and signed. Send original and two copies to the Revenues Section in Financial Administration.
Attach Division copy of cashier's receipt to this form. Should you have any questions regarding this form, please call

239-0267.

1. Receipt No.

E629764

2. Receipt Date

6/5/96

3. Receipt Amount

450

4. Amount to be Refunded

~~225~~ 450

5. Revenue Type: (check one)

- | | | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Water Well Drillers Fees | <input type="checkbox"/> Water Assessment Fees | <input type="checkbox"/> Ind. & Haz Waste Facility, Generator |
| <input type="checkbox"/> Water Well Pumps Fees | <input type="checkbox"/> Water Rate Complaints | <input type="checkbox"/> Ind. & Haz Waste Management Fee |
| <input type="checkbox"/> Water District Creation or Conversion | <input type="checkbox"/> Boat Certification Fees | <input type="checkbox"/> Toxic Report Fee |
| <input type="checkbox"/> Deposition and Witness Fee | <input type="checkbox"/> Plumbing Performance Standards Fee | <input type="checkbox"/> Waste Disposal Well Permit |
| <input type="checkbox"/> Water Permit Application and Use Fee | <input type="checkbox"/> On-Site WasteWater Treatment Research Fee | <input type="checkbox"/> Hazardous Waste Permit Fees |
| <input type="checkbox"/> Bond Issue Applications | <input type="checkbox"/> On-Site WasteWater Installers Registration Fee | <input type="checkbox"/> Solid Waste Disposal Fee |
| <input type="checkbox"/> DPS Services Invoice No. _____ | <input type="checkbox"/> On-Site WasteWater Inspection Permit Fee | <input type="checkbox"/> Solid Waste Special Permit Fee |
| <input type="checkbox"/> Miscellaneous Filings - Appl. from Water Districts | <input type="checkbox"/> Water Resource Management Fees | <input type="checkbox"/> Solid Waste Operator Certification |
| <input type="checkbox"/> Weather Modification Fees | <input type="checkbox"/> WasteWater Inspection Fees | <input type="checkbox"/> Emissions Fee |
| <input type="checkbox"/> WasteWater Operator Certification Fees | <input type="checkbox"/> Water Quality Regulatory Assessments | <input type="checkbox"/> Air Inspection Fees |
| <input type="checkbox"/> WaterWorks Operator Certification Fee | <input type="checkbox"/> Water Regulatory Utility Fees | <input checked="" type="checkbox"/> Air Permit Fees |
| <input type="checkbox"/> Residential Water Operator Certification Fee | <input type="checkbox"/> Petroleum Storage Tank Registration Fees | <input type="checkbox"/> Mobile Source Fee |
| <input type="checkbox"/> Public Drinking Water Supply Fee | <input type="checkbox"/> Petroleum Storage Licensing Fees | <input type="checkbox"/> Other (Explain) _____ |

6. Check reason refund being requested:

- ☐ Duplicate Payment ☒ Application Withdrawn, Returned or Incomplete (circle one)
☐ Fee Not Required ☐ Application did not require formal action by the full Commission
☐ Overpayment
☐ Other - Please explain: Permit not required so full refund of fee will be given

7. Fee was filed on behalf of:

Hercules Marine Services

Permit/Facility/Registration Number:

Permit No. 32768

Federal Employer ID Number (or SSN):

A/R Account Number:

BL-0118-V

8. Remit To:

Name:

Larry Ballinger

Mailing address if different:

Address:

906 Marlin

City, St. Zip

Freeport, TX, 77541

Tele No.:

409 233 6371

9. Requested by:

Latherine C. Hawes

Signature, Title

1/3/97

Date

10. Approved by:

Kimberly Harshbarger, Team Leader

Signature, Title

01/03/97

Date

TO BE COMPLETED BY REVENUES SECTION, FINANCIAL ADMINISTRATION:

Agency Voucher No.

Date

Warrant No.

Amount

Request Processed By:

Date

Approved By:

Date

Comptroller Voucher No.

Date

DATE: 01-03-97
TIME: 09:07:42

PERMIT APPLICATION SUMMARY

PAGE: 1

**GENERAL PERMIT INFORMATION

PERMIT: 32768 ENGR: RAJAGOPALAN, S.(R/
ISSUED TO: HERCULES MARINE SERVICES CORPORATION
UNIT NAME: BARGE CLEANING & REPAIR
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR
LAT: 28-58-01 LONG: 095-17-17 REGION: 12 COUNTY: BRAZORIA
NEAR CITY: FREEPORT LOC: 906 MARLIN

GROUP: CORE ID:BL0119V

**PERMIT/SITE CONTACT INFORMATION:

PERSON: THOMAS E. HORD ADDR1: 906 MARLIN
TITLE: VICE PRESIDENT ADDR2:
CITY: FREEPORT STATE: TX ZIP: 77541 PHONE: (409)233-6371

** CONSTRUCTION **

TYPE APPL(C,S,X): (C)
APPL RECD : 06-04-96
DEFIC LTR SNT :
SUPP INFO REQ :
SUPP INFO RECD :
APPL CMPLT :
COMP LTR SNT :
PUB NTC SNT :
PUB NTC PUB :
PUB HEAR (R,H) : ()
CNST TYPE(C,X,S) : ()
DISP () :
CNST START DATE :

** OPERATING **

OPERATION START :
OPER APPL RECD :
OPER APPL CMPLT :
DISP(I,D): ()
OPR TYPE(R,S) : ()

*
* I= ISSUED D=DENIED *
* E=EXPIRED *
* C=CNST S=SPECIAL *
* X=EXEMPT R=OPER *

** CONTINUANCE **

NOTICE MAILED :
APPL RECD :
DEFIC LTR SNT :
SUPP INFO REQ :
SUPP INFO RECD :
APPL CMPLT :
COMP LTR SNT :
PUB NTC SNT :
PUB NTC PUB :
PUB HEAR(R,H) : ()
DISP(I,D,E):() :

Disp: 1-7-97

**EMISSIONS CHANGED :

**REMARKS:

at company request
Withdrawn 01/03/97

**OTHER PERMIT DATES:

APP/PERMIT VOIDED: X
APP ON HOLD UNTIL:
CONST STOPPED UNTIL:

VOID/HOLD CODES:

REASON: CR
REASON: DD-DATA DELAY
RE-REISSUED

PD-PLT DISMANTLED
TI-TIME EXPIRED
TD-TECH DIFFICULTY
NR-NO RESPONSE

**PERMIT TYPES/STANDARDS:

NEW MAJ SOURCE:> 100 TPY:
MAJOR MODIFICATION:
NON-ATTAIN REVIEW:
INSIGNIFICANT EMISSIONS:
FUEL CONVERSION:

SIC: 4491
PORTABLE:
NSPS:
NESHAP:
TOXIC MATERIALS:

RELATED PERMITS: SUFFIX REASON
TACB: CHG LOC:
PSD-TX: CHG OWN:
STD EX NO.:

**AIR CONTAMINANT INFORMATION:

NAME

CODE

MAX ALLOWABLE RATE
LBS/HR TONS/YR

ACTUAL
TONS/YR

**ABATEMENT EQUIPMENT:

000995

Withdrawal
TECHNICAL REVIEW

Permit No: **32768**
Project Type: **Withdrawal**
City: **Freeport**
Record No: **43911**
Account No: **BL-0118-V**

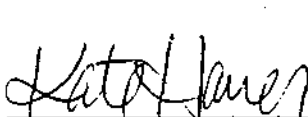

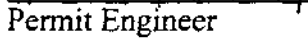
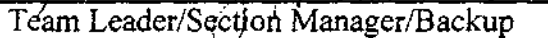
Company: **Hercules Marine Services**
Facility Name: **Barge Cleaning and Repair**
County: **Brazoria**

AUTHORIZATION CHECKLIST (any "Yes" requires signature by Executive Director):

| | |
|-----------------------------------------------------|----|
| Will a new policy/precedent be established? | No |
| Was at least one public hearing request received? | No |
| If yes, was/were all the request(s) withdrawn? | No |
| Is a state or local official opposed to the permit? | No |
| If yes, please provide name and title of official. | |
| Is waste or tire derived fuel involved? | No |
| Are waste management facilities involved? | No |

PROJECT OVERVIEW

Hercules Marine Services requested withdrawal of their application for a construction permit on December 12, 1996. Hercules was issued a standard permit on November 12, 1996 for a vapor combustor unit and they no longer need this permit. No permit is needed because the facility retains its grandfathered status.

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| Permit Engineer | Team Leader/Section Manager/Backup |
|  |  |
| | |

000996



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
FORM PI-1, GENERAL APPLICATION -- AIR QUALITY PERMIT

A PERMIT TO CONSTRUCT MUST BE APPROVED BEFORE ANY ACTUAL WORK IS BEGUN ON THE FACILITY. This is not a stand alone document. Please refer to the "Form PI-1, Permit Application Instructions" manual (Instructions) for specific details to complete this application. Please print or type all information. All information requested herein must be completed and submitted before public notification procedures may be authorized. Please contact the CORE Section of the Permits Division with any questions at 512/908-1000 (FAX No. 512/908-1300). Written inquiries may be addressed to: Texas Natural Resource Conservation Commission, Office of Air Quality, Permits Division, P.O. Box 13087, Austin TX 78711-3087.

VERY IMPORTANT!

- Is CONFIDENTIAL information being submitted with this application? ☐ -YES ☒ -NO
If YES, is each "confidential" page so marked in big red letters? ☒ -YES ☐ -NO
• Has a CORE checklist been attached to this application? ☐ -YES ☐ -NO
• Is this application in response to, or related in any way to, a Notice of Violation at this location? ☐ -YES ☒ -NO. If YES, date of Notice of Violation: _____
Also, if YES, pursuant to Rule: _____

Please furnish the following information pertaining to this facility SITE:

1. Please estimate the net number of new jobs which will be created in the community as a result of the operation of the facility authorized by this application: 30
2. Name of elected State Senator: Buster Brown
3. Name of elected State Representative: Tom Delay

Please furnish the following information pertaining to Compliance History:

1. Submit a 5-year Compliance History in accordance with Regulation VI, Rule 116.120-116.126 for all facilities classified in Section V.C.2 of the PI-1 form below.

I. TYPE OF APPLICATION: ☒ -CONSTRUCTION PERMIT ☐ -AMENDMENT, Permit No. _____

A. PERMIT ISSUED TO: HERCULES MARINE SERVICES CORPORATION

(Entity legally responsible for permit, i.e., Owner or Operator of the facility)

Permittee's Texas State Comptroller's Tax ID No.: _____

Permittee's address (Person, Title, Address): 906 Marlin Freeport, Texas 77541

Telephone: (409) 233 - 6371

FAX: (409) 233 - 6375

Permittee's Technical Contact (Person, Title, Address): Dr. H. M. Walker,

Environmental Consultant 3321 E. Bayou Dr., Dickinson, Texas 77539

Telephone: (713) 337 - 1177

FAX: (713) 337 - 1177

B. OWNER OF FACILITY: HERCULES OFFSHORE CORPORATION

(If different from permittee, include name of proprietor/partner(s) if applicable)

Owner's Texas State Comptroller's Tax ID No.: 02-078636-1

Owner's address (Person, Title, Address): 11011 Richmond Suite 500, Houston, TX. 77042 Thomas J. Seward, II, President

C. Principal Company Product or Business: Barge Cleaning and Repair

Plant SIC Code: 4491

II. FACILITY PHYSICAL LOCATION:

A. Name of plant or site: Hercules Marine Services Corporation

B. Street Address: 906 Marlin Freeport, Texas 77541

C. Nearest City: Freeport County: Brazoria Site Zip Code: 77541

D. Latitude: 28° 58' 01" N Longitude: 95° 17' 17" W (must be to nearest second)

E. Plant Site TNRCC Air Quality Account Number: 277.030
N 3206.303

III. FACILITY TYPE AND OPERATING SCHEDULE:

A. Name of facility to be permitted: Hercules Marine Services Corporation

B. Facility Type (Check One): ☒ Permanent, ☐ Portable.

C. Facility Operating Schedule: (24) Hours/day; (7) Days/week; (52) Weeks/year
() Seasonal - explain: _____

D. Start Dates (Proposed/Actual): Construction: 05/01/94 (P/A) _____
Operation: 06/01/94 (P/A) _____

IV. FACILITY CLASSIFICATION (Check only one block):

A. ☐ New Permitted Facility - New grass roots facility at this location

B. ☒ New Permitted Facility - Modification of existing - permitted facility

C. ☐ Amendment to Permitted Facility. Permit No(s). _____

D. ☐ Change in Location of Permitted Facility. Permit No(s). _____

Location of Present Facility: Same as above

RECEIVED
AUG 03 1996

V. COMPLIANCE HISTORY:

A. ☐ Exemption claimed under Rule 116.121, or

B. ☒ Existing Site => 5 years old. TNRCC will compile Compliance History, or

C. ☐ New Site (This is a new grassroots site with no operating history), or

D. ☐ Existing Site < 5 years old.

If "C" or "D", does applicant have similar facilities in Texas? ☐ -YES ☒ -NO.

1. If YES, list TNRCC Air Quality Account No.(s): _____

2. If NO, attached one of the following:

a. ☐ Compliance History for similar sites in other States. If none, then:

b. ☐ Compliance History as required by Regulation VI, Rule 116.122(b).

(Over)

PERMIT PROGRAM

000997

VI. SUBMIT THE FOLLOWING GENERAL INFORMATION:

- A.1 Submit a current area map as specified in the Instructions.
Are any schools located within 3000 feet of this facility? ☐-YES ☒-NO.
- A.2 Submit a plot plan of the plant property as specified in the Instructions.
- B. Submit emission data, including fugitive emissions and stack parameters, on Table 1(a). Attach emission calculations and information showing how emissions were determined. See Instructions for further details.
- C. Submit an analysis of Best Available Control Technology, including the estimated installed capital and operating costs for all abatement equipment associated with the facility. See Instructions for further details.
- VERY IMPORTANT!**
- D. Franchise Tax. Submit a copy of a Certificate of Good Standing from the State Comptroller's Office with each application if the permit is to be issued to a corporation. See Instructions if you are not a corporation or for further information.
- E. Permit Fee. Enclose required fee, fee certification and estimated capital cost (Table 30); or furnish explanation why fee is not required. (See Regulation VI Rule 116.141.)

VII. SUBMIT (A) PROCESS FLOW DIAGRAM, (B) PROCESS DESCRIPTION AND (C) MATERIAL BALANCE AS SPECIFIED IN THE INSTRUCTIONS (see Instructions concerning submittal of confidential information.)

VIII. GENERAL APPLICATION REQUIREMENTS:

Submit itemized information and/or analysis that will demonstrate that all general application requirements as specified in Rule 116.111 of TNRCC Regulation VI are met. Each requirement in Rule 116.111 must be addressed in this application. See Instructions for further details. Atmospheric dispersion modeling may be required as part of the air quality impact analysis per Rule 116.111(9).

Is this facility a MAJOR SOURCE/MODIFICATION with regard to one of the following:

1. §116.111(7) - Non-Attainment ☐-YES ☒-NO
2. §116.111(8) - Prevention of Significant Deterioration ☐-YES ☒-NO.

IX. APPEAL PROCESS:

Commission Rule 116.114(a)(3) should be consulted for the procedure to be used to appeal the failure of the agency to process an application within the prescribed time limits.

- I. A copy of this application and all attachments must be sent by the applicant to the EPA Region 6 office in Dallas if PSD or Non-Attainment Review is applicable in any form, the appropriate TNRCC Regional Office and to any local air pollution control program having jurisdiction. Copies of the application were sent to:

EPA Region 6 Office in Dallas : ☐-YES ☒-Not applicable.
TNRCC Regional Office (city) sent to: TNRCC 5555 West Loop, Suite 300, Hou, Tex 77401
Copies sent to these local programs: 1. _____
☐-NOT APPLICABLE. 2. _____

- XI. §116.110(d). PE Seal. Is the estimated capital cost of the project for which application is made greater than \$2 million dollars? ☐-YES ☒-NO

If YES, application must be submitted under seal of a Texas registered Professional Engineer, unless exemption is claimed pursuant to the Texas Professional Engineers Act. ☐ - Exemption is claimed pursuant to Section _____ of the TPEA.

Thomas E. Hord Vice President

XII. I,

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that, to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Health & Safety Code (THSC), Chapter 382, Texas Clean Air Act, as amended, or any of the air quality Rules and Regulations of the Texas Natural Resource Conservation Commission or any local governmental ordinance or resolution enacted pursuant to the Texas Clean Air Act. I further state that I have read and understand Section 382.091, THSC, which defines CRIMINAL OFFENSES for certain violations, including intentionally or knowingly making or causing to be made false material statements or representations in this application, and Section 382.092, THSC, pertaining to CRIMINAL PENALTIES.

DATE 6/3/96

SIGNATURE

Thomas E. Hord

000998

NOTE - ORIGINAL SIGNATURE IN INK IS REQUIRED.

PROPHCY DEBTORS
BATCH EDIT REPORT

TX Natural Resource Conserv Com
REVENUE REPORT

PRINTED ON 07JUN96 9:22AM PAGE 1
AS AT JUN01,96
FOR CURRENT PERIOD 96/10

KCHI

000999

| BATCH NUMBER | SITE CODE | SLIP NUMBER | DEP DATE | TRAN TYPE | TRANS CODE | STUS CODE | EXPECT TOTAL | BATCH TOTAL | EXP NUMBER | PAID BY | BTCH OPER | BANK BRANCH | CARD AUTH | ENDRSMT# REF# 1 | INVOICE REF# 2 | CHECK NUM | TRANSACTION AMOUNT |
|------------------------------|-------------------------|----------------|-------------|--------------|---------------|--------------|-----------------|----------------|---------------|------------|--------------|----------------|--------------|--------------------|-------------------|--------------|-----------------------|
| FEB TYPE RECVD DATE | BANK ACCOUNT NAME | | | | | | | | | | | | | | | | |
| ACCT NUMBER | CARD NUM | | | | | | | | | | | | | | | | |
| TRAN HEADR USER DATA | | | | | | | | | | | | | | | | | |

FE 1: APF

| BATCH # | SITE CODE | SLIP # | DATE | TYPE | CODE | STUS | EXP TOTAL | EXP COUNT | OPER |
|---------|-----------|----------|----------|------|------|------|-----------|-----------|-----------|
| 4886 | RS | D6802552 | JUN06,96 | 8 | N | 1 | 22885.82- | 44 | OPER - kw |

APF AIR PERMIT FEES
JUN05,96
APF 0
999

HERCULES MARINE SERVICES CORP

BL01118V

0

E629764

32768
43911

1879

TOTAL ENDRSMNT#: E629764

450.00- ✓

450.00-

APF AIR PERMIT FEES
JUN05,96
AP 0
999

DIAMOND SHAMROCK

NE0114C

0

E629766

32769
43909

373450

TOTAL ENDRSMNT#: E629766

4125.00- ✓

4125.00-

4575.00-

TOTAL BATCH NUM: 4886

111.131

definition for

Shroud gives

BACT requirements

no silica sand

shroud

111.151

Concorded 11/15/11



HERCULES

MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax: (409) 233-6375

RECEIVED

DEC 17 1996

PERMITS PROGRAM

December 12, 1996

Ms. Kate Hauer
Texas Natural Resource Conservation Commission
Office of Air Quality/NSR Program
P. O. Box 13087
Austin, Texas 78711-3087

Dear Ms. Hauer:

Additional information on Permit Application Number 32768
is not being submitted since application is being withdrawn.

If you have any questions, please contact me at (409)-233-6371.

Thank you for your assistance.

Sincerely,

Larry Ballinger
Manager
Hercules Marine Services Corporation

LB:gm

001000

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

January 3, 1997

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

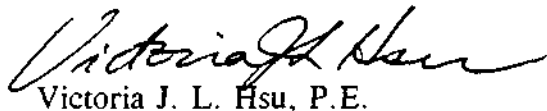
Dear Mr. Hord:

As you requested in your application withdrawal letter dated December 12, 1996, we are voiding the active Permit Application File No. 32768. We understand that the facility retains its grandfathered status and therefore does not require a permit at this time.

All records regarding this application will be retained in case you should wish to reactivate the project in the future; however, any future reactivation will require that you reapply under the requirements of 30 TAC Chapter 116 in effect at that time.

Thank you for informing us of the status of this application.

Sincerely,



Victoria J. L. Hsu, P.E.
Director
New Source Review Division

VH/kh/jb

cc: Ms. Karen Atkinson, Acting Regional Manager, Houston
Harry Walker, Ph.D., Walker, H. M. & Associates, Dickinson

001001

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
REQUEST FOR REFUND

INSTRUCTIONS: Form must be completed and signed. Send original and two copies to the Revenues Section in Financial Administration. Attach Division copy of cashier's receipt to this form. Should you have any questions regarding this form, please call 239-0267.

1. Receipt No. E629764 2. Receipt Date 6/5/96
3. Receipt Amount 450 4. Amount to be Refunded ~~225~~ 450

5. Revenue Type: (check one)

- | | | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Water Well Drillers Fees | <input type="checkbox"/> Water Assessment Fees | <input type="checkbox"/> Ind. & Haz Waste Facility, Generator |
| <input type="checkbox"/> Water Well Pumpers Fees | <input type="checkbox"/> Water Rate Complaints | <input type="checkbox"/> Ind. & Haz Waste Management Fee |
| <input type="checkbox"/> Water District Creation or Conversion | <input type="checkbox"/> Boat Certification Fees | <input type="checkbox"/> Toxic Report Fee |
| <input type="checkbox"/> Deposition and Witness Fee | <input type="checkbox"/> Plumbing Performance Standards Fee | <input type="checkbox"/> Waste Disposal Well Permit |
| <input type="checkbox"/> Water Permit Application and Use Fee | <input type="checkbox"/> On-Site WasteWater Treatment Research Fee | <input type="checkbox"/> Hazardous Waste Permit Fees |
| <input type="checkbox"/> Bond Issue Applications | <input type="checkbox"/> On-Site WasteWater Installers Registration Fee | <input type="checkbox"/> Solid Waste Disposal Fee |
| <input type="checkbox"/> DPS Services Invoice No. _____ | <input type="checkbox"/> On-Site WasteWater Inspection Permit Fee | <input type="checkbox"/> Solid Waste Special Permit Fee |
| <input type="checkbox"/> Miscellaneous Filings - Appl. from Water Districts | <input type="checkbox"/> Water Resource Management Fees | <input type="checkbox"/> Solid Waste Operator Certification |
| <input type="checkbox"/> Weather Modification Fees | <input type="checkbox"/> WasteWater Inspection Fees | <input type="checkbox"/> Emissions Fee |
| <input type="checkbox"/> WasteWater Operator Certification Fees | <input type="checkbox"/> Water Quality Regulatory Assessments | <input checked="" type="checkbox"/> Air Inspection Fees |
| <input type="checkbox"/> WaterWorks Operator Certification Fee | <input type="checkbox"/> Water Regulatory Utility Fees | <input type="checkbox"/> Air Permit Fees |
| <input type="checkbox"/> Residential Water Operator Certification Fee | <input type="checkbox"/> Petroleum Storage Tank Registration Fees | <input type="checkbox"/> Mobile Source Fee |
| <input type="checkbox"/> Public Drinking Water Supply Fee | <input type="checkbox"/> Petroleum Storage Licensing Fees | <input type="checkbox"/> Other (Explain) _____ |

6. Check reason refund being requested:

- ☐ Duplicate Payment ☒ Application Withdrawn, Returned or incomplete (circle one)
☐ Fee Not Required ☐ Application did not require formal action by the full Commission
☐ Overpayment
☐ Other - Please explain: _____

Permit not required so full refund of fee will be given

7. Fee was filed on behalf of:

Hercules Marine Services Permit/Facility/Registration Number: Permit No. 32768
Federal Employer ID Number (or SSN): _____ A/R Account Number: BL-0118-V

8. Remit To:

Name: Larry Ballinger Mailing address if different: _____
Address: 906 Martin
City, St, Zip: Freeport, TX, 77541
Tele No.: 409 233 6371

9. Requested by:

Katherine C. Hawes
Signature, Title

1/3/97
Date

10. Approved by:

Kimberly Harshbarger, Team Leader
Signature, Title

01/03/97
Date

TO BE COMPLETED BY REVENUES SECTION, FINANCIAL ADMINISTRATION:

| | |
|-------------------------|--------|
| Agency Voucher No. | Date |
| Warrant No. | Amount |
| Request Processed By: | Date |
| Approved By: | Date |
| Comptroller Voucher No. | Date |

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

File

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

December 10, 1996

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

We received the above-referenced permit application. We subsequently determined that additional information was necessary and requested this information by letter dated November 1, 1996 (copy enclosed). Please be advised that we have not received a satisfactory reply.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 15 days of the date of this letter will result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, please submit a new PI-1 application form and all the information requested above. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

001003

Mr. Thomas E. Hord

Page 2

December 10, 1996

Re: Permit No. 32768

Thank you for your cooperation in this matter. If you have questions concerning the review or this notice, please contact me at (512) 239-1372.

Sincerely,

Katherine C. Hauer

Katherine C. Hauer

Chemical Section

New Source Review Division

Texas Natural Resource Conservation Commission

KH/ms

Enclosure

cc: Ms. Karen Atkinson, Air Program Manager, Houston

Mr. Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton

Dr. H. M. Walker, H. M. Walker & Associates, Inc., Dickinson

001004

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



File

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 1, 1996

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide calculations for the degassing of barges. Speciate emissions from the combustor for each compound. Provide emission rates on Table 1a. These emissions need to be modeled to assess the on-shore impacts.
2. Provide a chemical list of all of the compounds that the barges will contain before being cleaned. This list will be included with the permit.
3. How are the vapors from the carbon canisters checked to ensure breakthrough has not occurred? Emissions from carbon canisters should be based on a breakthrough definition of 100 ppmv or less. Emission calculations can be found in the Carbon Adsorption Systems Standardization Package. Include speciated emissions on the Table 1a.

001005

Mr. Thomas E. Hord

Page 2

November 1, 1996

Re: Permit No. 32768

4. The carbons adsorption system represented in the application consists of two carbon canisters. This system is appropriate for controlling no more than two compounds at a time. For venting three or more compounds at a time, a minimum of three carbon canisters connected in series is required. Describe the emissions that will be vented to the carbon adsorption system.
5. The fugitive emissions are not represented in this application. Calculate the fugitive emissions according to the appropriate monitoring program found in the Equipment Leak Fugitives Standardization Package. Include these speciated emissions on the Table 1a.
6. There are no tank truck emissions for the recovered materials listed on the Table 1a. Explain the tank truck loading operations including the type of truck and type of connection used during the loading operation. The maximum collection efficiency associated with a vacuum truck is 95 percent depending upon the type of connections used. Provide tank truck loading emissions for this operation. Include these emissions on the Table 1a.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 30 days of the date of this letter may result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, a new PI-1 application form and all the information requested above will be required. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

001006

Mr. Thomas E. Hord

Page 3

November 1, 1996

Re: Permit No. 32768

Thank you for your cooperation in this matter. If you have questions concerning the review of this notice, please contact me at (512) 239-1372.

Sincerely,

Katherine C. Hauer

Katherine C. Hauer

Chemical Section

New Source Review Division

Texas Natural Resource Conservation Commission

KH/ms

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Rob Barrett, Director, Harris County Pollution Control Department, Pasadena
Dr. H. M. Walker, H. M. Walker & Associates, Inc., Dickinson

001007

PERMISO DE CONSTRUCCION
A TODAS LAS PERSONAS Y ENTIDADES INTERESADAS:

Por el presente se les notifica que **THE DAVIS COMPANY** ha solicitado un Permiso de Calidad de Aire Número **27589** de la Comisión de Conservación de Recursos Naturales de Tejas (TNRCC o Texas Natural Resource Conservation Commission). Si se aprueba este permiso, se autorizará la construcción de una **Reparación de Vehículos en Red Oak**, condado de **Ellis**, Tejas. El sitio de la planta existente es **906 Marlin**. Esta planta va a emitir los siguientes contaminantes atmosféricos: óxidos de nitrógeno, monóxido de carbono, materia en partículas, óxidos de azufre, y compuestos de carbono.

Una copia de todos los materiales en el archivo público puede ser inspeccionada o copiada en la oficina regional del **TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500**

, y en la oficina central del TNRCC, Oficina de Calidad de Aire, 12100 Park 35 Circle, Edificio C, Austin, Tejas 78753, teléfono (512) 239-1000. Los archivos del cumplimiento de las leyes de la planta, si existen, pueden ser evaluados por el público en la oficina regional del TNRCC. Cualquier información relacionada a la solicitud o a cualquiera de sus aspectos técnicos puede obtenerse escribiendo a **Ms. Kate Hauer**, TNRCC Office of Air Quality New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 en Austin o a la oficina regional del TNRCC en **Houston**.

Usted puede enviar comentarios escritos con respecto a esta solicitud de permiso a la Oficina de Calidad de Aire, División de Revisión de Fuentes Nuevas en Austin. Todos los comentarios escritos recibidos durante los 30 días después de la publicación de este aviso serán considerados por el Director Ejecutivo del TNRCC para determinar si se otorga o no el permiso. Todos los comentarios escritos estarán disponibles para inspección del público en la Oficina de Calidad de Aire en la Oficina Central del TNRCC en Austin. Este aviso se publicará en (a)* y en (b)*.

Cualquier persona que pueda ser afectada por las emisiones de contaminantes atmosféricos de la planta propuesta puede solicitar que la Comisión lleve a cabo una reunión pública informal y/o una audiencia en controversia sobre la solicitud de acuerdo a la sección 382.056(d) del Código de Salud y Seguridad de Tejas. La Comisión no esta obligada a llevar a cabo una audiencia en controversia si se considera que las bases de la petición son irracionales. Todas las peticiones para audiencia en controversia deben ser recibidas por escrito dentro de los 30 días del período de comentarios aunque se haya celebrado o planeado una reunión pública informal sobre este asunto. Si usted desea solicitar una audiencia pública, deberá someter su solicitud por escrito. Usted debe proporcionar su (1) nombre, dirección postal y número de teléfono durante el día; (2) el número del permiso u otra referencia apropiada a esta solicitud; (3) la oración en inglés "I/we request a public hearing"; (4) una descripción breve de como al otorgar el permiso se le perjudicaría a usted o a las personas que usted representa; (5) una descripción de la posición de su propiedad en relación a las operaciones del solicitante; y (6) su propuesta de como ajustar el permiso de forma que se responda a sus inquietudes para que usted pueda retirar su petición de una audiencia. Peticiones para una audiencia pública deben ser enviadas por escrito a Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, teléfono (512) 239-3300.

EXAMPLE D

Page 2

Para que el permiso sea otorgado a esta planta, el solicitante debe demostrar que todas las fuentes de contaminantes cumplen con las reglas y reglamentos de calidad de aire del TNRCC y los reglamentos aplicables del gobierno Federal. Esto incluye la aplicación de "la Mejor Tecnología de Control Disponible" (BACT o Best Available Control Technology) para cada fuente de emisiones nueva o modificada y cumplimiento de todas las normas relacionadas a la calidad del aire.

* see "Example A NOTES"

Note: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

Publication Elsewhere in the Newspaper

A TODAS LAS PERSONAS Y ENTIDADES INTERESADAS:

THE DAVIS COMPANY ha hecho solicitud a la Comisión de Conservación de Recursos Naturales de Tejas (TNRCC o Texas Natural Resource Conservation Commission) para el permiso Núm. **27589** para construir una **Reparación de Vehículos en Red Oak, Condado de Ellis**, Tejas. La dirección de la planta **existente** es **906 Marlin**. Mas información con respecto a esta solicitud se encuentra en la sección de avisos públicos de esta publicación. Este aviso se publicará en (a)* y en (b)*.

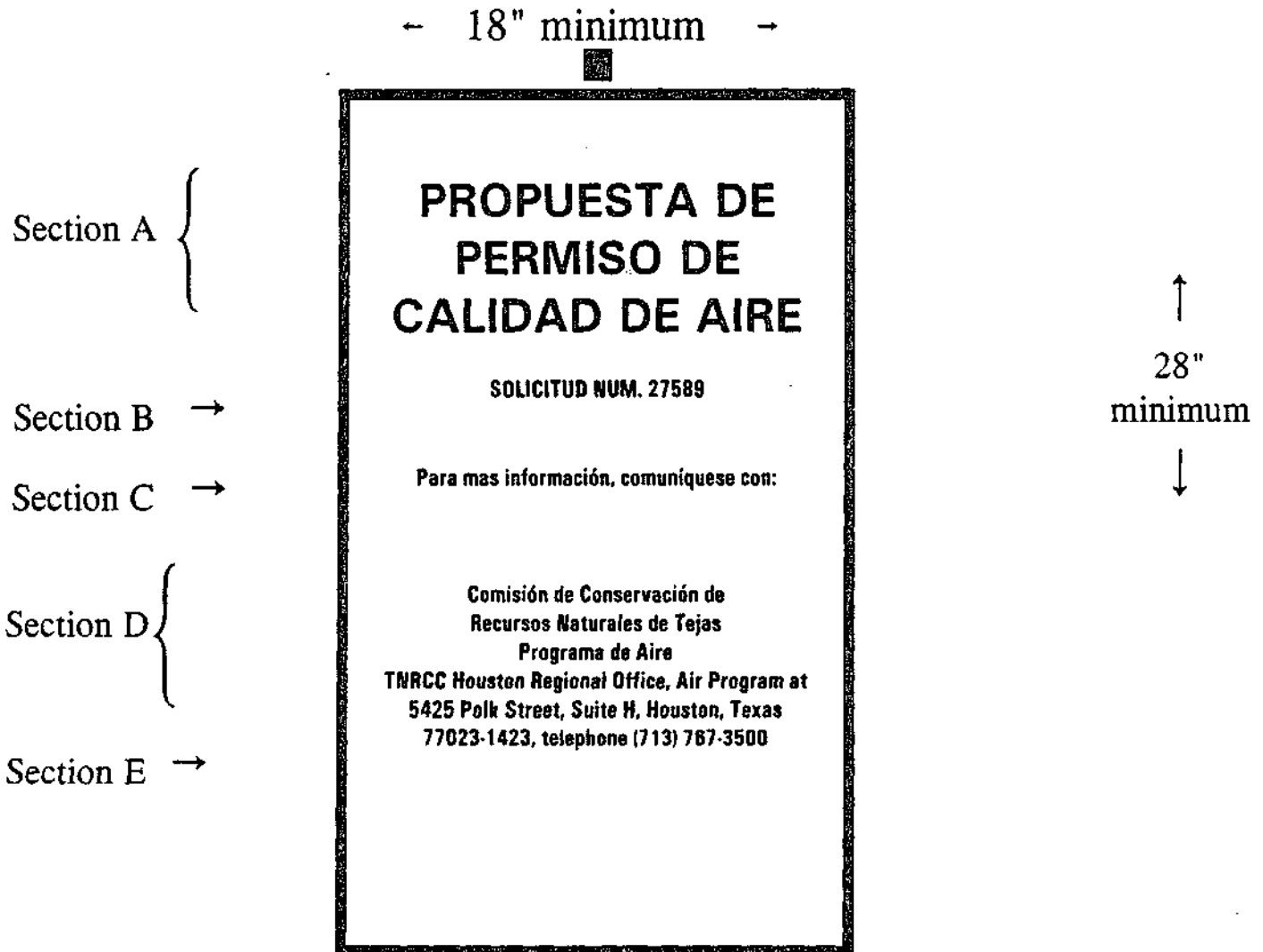
* see "Example B NOTES"

Note: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

Example C

SIGN POSTING

Sign(s) must be in place on day of publication of first newspaper notice and must remain in place and be legible for the 30-day public comment period (which begins on the last day of newspaper publication). Note - The information shown is an example only. It is your responsibility to verify that the appropriate information pertaining to your application is accurate. Each sign placed at the site must be located within 10 feet of each (every) property line paralleling a street or other public thoroughfare. Signs must be spaced at not more than 1,500-foot intervals. A minimum of one sign, but not more than three signs shall be required along any property line paralleling a public thoroughfare.



↑ Sign(s) must be placed at whatever height above the ground is necessary for sign(s) to be 100% visible from street.

WHITE BACKGROUND WITH BLACK LETTERS

Section A - 2" bold-face block printed capitals

Section B - 1" bold-face block printed capitals

Section C - 1/2" lettering

Section D - 1" bold-face caps, 3/4" bold-face lower case

Section E - 2" bold-face numbers

07/17/96 13:52 713 827 7919
08/08/96 15:06 512 211 1400

TNRCC
TNRCC AIR PERMIT REG 12

001
001/001

CCB

Request for Comments -- Site Review
TNRCC -- New Source Review Program
Phone: (512) 239-1000
Fax: (512) 239-1400

TO: Region: 12 City: Freeport, Texas County: Brazoria
Legal: _____

Submitted by: Sridharan Raj E-Mail Initials: SRAJAGOP Phone: X 1227

Date Request Submitted: June 6, 1996

Comments Deadline: 7/21/96 Date Application Received by Permits: 6/4/96

REGIONAL OFFICES: Please return comments ASAP, but no later than the comments deadline which is 45 days from the submittal date. Permit disposition will proceed after comments are received or after the comments deadline has past. Engineer may request faster response if needed.

PERMIT TYPE:

☒ Construction ☐ Amendment ☐ Revision ☐ Renewal ☐ Other _____

PERMIT NO.: 32768 TNRCC ACCOUNT NO.: EL-0118-V
Company Name: HERCULES MARINE SERVICES CORPORATION
Plant Name: _____ County: Brazoria
Location: _____
Unit Name: BARGE CLEANING & REPAIR
Plant Contact: MR. HORD Phone: 713-337-1177

Operating Schedule: 24 Hours/Day 7 Days Week 52 Weeks/Year ☒ Continuous
Night Operation ☐ Yes ☐ No

Date Comments Returned to CORE/New Source Review: _____

Fax Transmittal Memo

of Pages 3

| | |
|-----------------|------------------------|
| To: RAS | From: Candace Bartlett |
| Co.: TNRCC | Co.: |
| Dept.: CORE/NSR | Phone # 713 767-3233 |
| Fax # 239-1400 | Fax # 767-3261 |

I received the application from the
Company on 7/16/96

RCFX14

001014

07/17/96 13:52 713 627 7919
08/06/96 15:06 512 1 1400

TNRCC

TNRCC AIR PERMIT

REG 12

0002
002/003

Request for Comments -- Site Review/Compliance History
RESPONSE

TO: Sridharan Raj, New Source Review Program, Austin

FROM: Region: 12

City: Freeport, Texas

County: Brazoria

Compliance: _____ Legal: _____

Copy of Application Received by your Office: ☒ YES ☒ NO Date Received: 7-16-96

PERMIT NO.: 32763

TNRCC ACCOUNT NUMBER: BL-0118-V

Investigator's/Compliance Officer's Name (Please Print): Candace C. Bartlett

Organization TNRCC

Phone: 713-767-3733

Comments Deadline (from pg. 1): 7/21/96

Date of Last Site Visit: 7-1-96

SITE INFORMATION:

Nuisance/Odor Potential: ☐ Low ☐ Moderate ☒ High

Hazard Potential: ☐ Low ☒ Moderate ☐ High

Surrounding Land Use: Industrial and residential, some commercial businesses are located near the facility.

School within 3,000 feet? ☐ Yes ☒ No

Distance to Nearest Off-Property Receptor: 150 ft approx.

Receptor Type: ☐ School ☐ Residence ☒ Other Storage tank (Industrial)

Describe area surrounding nearest receptor: The area is primarily industrial with storage tanks and heavy equipment

Distance from unit to nearest property line: 250 ft. approx.

NOV INFORMATION (concerning affected process unit):

Type of Site: ☐ Existing ☐ Similar in Texas ☐ Similar in U.S.

NOV Issued? ☒ No ☐ Yes Date: _____

Type of Violation: _____

Please provide any information the permit engineer needs concerning the current NOV status:

Summarize any recent complaints related to this facility: The facility has had numerous dust complaints filed against it however they have not been confirmed for nuisance. The last complaint was called in 12/95.

001015

Recommendation based on Compliance History: (+For Compliance Use Only)

☒ Proceed with Permit Review ☐ Additional Provisions ☐ Deny Permit

07/17/96 13:53 713 627 7919
06/06/96 13:06 512 1400

TNRCC
TNRCC AIR PERMIT

REG 12

003
003/003

SITE REVIEW:

In light of the proximity of sensitive receptors and the surrounding land use, please discuss any concerns you have concerning a facility of this type locating at the proposed site.

001016

07/24/96 07:53 713 627 7919
06/06/96 15:06 512 2. 1400

TNRCC
TNRCC AIR PERMIT REG 12

001
001/003

CCB

Fax Transmittal Memo

of Pages

| | |
|-----------------------|--------------------------|
| To: <u>K. Hauer</u> | From: <u>C. Bartlett</u> |
| Co.: <u>TNRCC</u> | Co.: <u>TNRCC</u> |
| Dept.: | Phone # <u>767-3733</u> |
| Fax # <u>239-1300</u> | Fax # <u>767-3761</u> |

nts -- Site Review
rce Review Program
(12) 239-1000
2) 239-1400

22

County: Brazoria

Mail Initials: SPAJAGOP

Phone: X 1237

Date Request Submitted: June 6, 1996

Comments Deadline: 7/21/96 Date Application Received by Permits: 6/4/96

REGIONAL OFFICES: Please return comments ASAP, but no later than the comments deadline which is 45 days from the submittal date. Permit disposition will proceed after comments are received or after the comments deadline has past. Engineer may request faster response if needed.

PERMIT TYPE:

☒ Construction ☐ Amendment ☐ Revision ☐ Renewal ☐ Other ☐

PERMIT NO.: 32768 TNRCC ACCOUNT NO.: HL-0114-V
Company Name: HERCULES MARINE SERVICES CORPORATION
Plant Name: County: Brazoria
Location:
Unit Name: BARGE CLEANING & REPAIR
Plant Contact: MR. HORD Phone: 713-337-1177

Operating Schedule: 24 Hours/Day 7 Days/Week 52 Weeks/Year ☒ Continuous
Night Operation ☐ Yes ☐ No

Date Comments Returned to CORE/New Source Review: _____

Fax Transmittal Memo

of Pages 3

| | |
|----------------------|-----------------------|
| To: <u>Region 12</u> | From: <u>Raj</u> |
| Co.: | Co.: <u>NSR/TNRCC</u> |
| Dept.: | Phone # <u>1237</u> |
| Fax # | Fax # <u>1400</u> |

RCFX14

6/6/96
Lob

001017

07/24/96

07:53

0713 62 7918

TNRCC

TNRCC AIR PERMIT

REG 12

002/003

06/06/96

15:06

0512 20 1400

Request for Comments -- Site Review/Compliance History
RESPONSETO: Sridharan Raj, New Source Review Program, AustinFROM: Region: 12City: Fresport, TexasCounty: Brazoria

Compliance: _____ Legal: _____

Copy of Application Received by your Office: ☒ YES ☒ NO Date Received: 7-16-96PERMIT NO.: 32768TNRCC ACCOUNT NUMBER: BL-0118-VInvestigator's/Compliance Officer's Name (Please Print): Candace C. BartlettOrganization: TNRCCPhone: 713-767-3733Comments Deadline (from pg. 1): 7/21/96Date of Last Site Visit: 7-1-96

SITE INFORMATION:

Nuisance/Odor Potential: ☐ Low ☐ Moderate ☒ HighHazard Potential: ☐ Low ☒ Moderate ☐ HighSurrounding Land Use: Industrial and residential, some commercial businesses are located near the facility.School within 3,000 feet? ☐ Yes ☒ NoDistance to Nearest Off-Property Receptor: 650ft approxReceptor Type: ☐ School ☐ Residence ☒ Other Storage tank (Industrial)Describe area surrounding nearest receptor: The area is primarily industrial with storage tanks and heavy equipmentDistance from unit to nearest property line: 250 ft. approx.

NOV INFORMATION (concerning affected process unit):

Type of Site: ☐ Existing ☐ Similar in Texas ☐ Similar in U.S.NOV Issued? ☒ No ☐ Yes Date: _____

Type of Violation: _____

Please provide any information the permit engineer needs concerning the current NOV status:

Summarize any recent complaints related to this facility: The facility has had numerous dust complaints filed against it. However they have not been confirmed for nuisance. The last complaint was called in 12/95. Confirmed nuisance in 1989-88 7/17/96

Recommendation based on Compliance History: (*For Compliance Use Only)

☒ Proceed with Permit Review ☐ Additional Provisions ☐ Deny Permit

001018

07/24/98 07:53
08/06/98 15:06

0713 82° 7919
0512 2 1400

TNRCC
TNRCC AIR PERMIT - REG 12

003
003/003

SITE REVIEW:

In light of the proximity of sensitive receptors and the surrounding land use, please discuss any concerns you have concerning a facility of this type locating at the proposed site.

The only concerns worth noting is that Region 12 office has had numerous complaints filed against the facility. One complainant in particular has been consistent in notifying the agency of alleged nuisances. The complainant has written his senator, has had meetings with the City of Freeport officials and has contacted EPA in regards to Hercules.

This past August 1995, the files for Hercules was examined by personnel from the Sierra Club.

001019

VIOLATION DETAIL REPORT FOR REGION 12

VIOLATIONS DETECTED SINCE 9/1/82

| ACCOUNT NUMBER | ACCOUNT NAME | CLASS | INVEST DATE | INVEST NO | SIT NO | RULE VIOLATED | VIOL NOS | VIOLATION RESOLVED | COURSE OF ACTION |
|----------------|-----------------------------------|-------|-------------|-----------|--------|---------------|----------|--------------------|------------------|
| 9L0031L | HERBERT A HEITMAN COMPANY INC | 1 | 12/19/82 | 3201374 | 2 | 4.01(A) | 3 | 01/26/83 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/30/82 | 336615A | 1 | 392.091(A) | 2 | 10/02/89 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/19/82 | 336615A | 1 | 101.4 | 1 | 10/02/89 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 116.4 | 5 | 10/19/92 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 116.4 | 6 | 10/19/92 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 115.132(A) | 8 | 10/19/92 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 116.4 | 3 | 10/19/92 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 115.112(A)(1) | 7 | 10/19/92 | 1 |
| 9L0118V | HERCULES REAL ESTATE CORPORATION | 3 | 09/13/82 | 342561A | 2 | 116.4 | 4 | 10/19/92 | 1 |
| 4400370 | HERMAN ALLMAN PROPERTY | 3 | 06/24/82 | 330558A | 1 | 111.1 | 1 | 07/23/87 | 1 |
| 4L0105H | HESS COAT INC | 3 | | UNKNOWN | 1 | 116.1 | 1 | 03/26/85 | 1 |
| 4503700 | HI LO AUTO SUPPLY CO. 15 | 3 | 07/05/84 | 322263A | 1 | 114.1(F) | 1 | 08/30/94 | 1 |
| 465216C | HI LO AUTO SUPPLY CO. 15 | 3 | 05/20/83 | 346510A | 1 | 114.1(F) | 1 | 08/06/93 | 1 |
| 4693251 | HI POINT INDUSTRIES INC | 3 | 03/31/82 | 335592A | 1 | 101.6 | 1 | 06/12/89 | 1 |
| 469339V | HI TECH MARBLE, INC. | 3 | 03/12/82 | 342612A | 1 | 116.4 | 1 | 12/07/92 | 1 |
| 464170V | HI TECH SPECIALTIES | 3 | 03/21/82 | 342615A | 1 | 116.1 | 1 | 06/29/92 | 1 |
| 4L0010X | HI-CHEN, INC. | 3 | 01/22/84 | 323523A | 10 | 101.6 | 1 | 03/19/85 | 1 |
| 4L0010X | HI-CHEN, INC. | 3 | 06/22/84 | 323523A | 10 | 116.1 | 2 | 03/19/85 | 1 |
| 4L0010X | HI-CHEN, INC. | 3 | 09/11/84 | 341135A | 11 | 101.6 | 3 | 02/07/92 | 1 |
| 4L0002X | HI-TEX MARBLE, INC. | 1 | 03/28/84 | 321647A | 1 | 111.1 | 1 | 07/13/84 | 1 |
| 4L0016X | KINGSTON ROOFING & SHEET | 3 | 02/02/85 | 322732A | 16 | 111.1 | 1 | 08/02/85 | 1 |
| 4Y00173 | HIGHWAY AUTO PARTS AND BODY | 3 | 03/26/85 | 337747A | 1 | 116.110(A) | 1 | | 4 |
| 460071W | HIGHWAY AUTO PARTS | 3 | 11/20/87 | 321601A | 4 | 111.1 | 1 | 01/08/88 | 1 |
| 460071W | HIGHWAY AUTO PARTS | 3 | 09/01/89 | 327050A | 2 | 111.101 | 2 | 12/03/89 | 1 |
| 461553H | HIGHWAY PIPELINE TRUCKING COMPANY | 3 | 11/07/86 | 329022A | 1 | 116.4 | 2 | 12/08/86 | 1 |
| 461553H | HIGHWAY PIPELINE TRUCKING COMPANY | 3 | 11/07/86 | 329032A | 1 | 111.22 | 1 | 12/08/86 | 1 |
| 4L0015X | HILLS TASTE SERVICES | 3 | 01/14/85 | 322331A | 15 | 111.1 | 1 | 02/11/85 | 1 |
| 4L0015X | HILLS TASTE SERVICES | 3 | 07/17/82 | 343222A | 14 | 332.085(A) | 3 | 12/16/92 | 1 |
| 4L0015X | HILLS TASTE SERVICES | 3 | 07/17/82 | 343223A | 14 | 101.4 | 2 | 12/16/92 | 1 |
| 4604200 | HINCH INSURANCE | 3 | 10/24/84 | 354366A | 1 | 111.101 | 1 | 01/13/85 | 1 |
| 460090H | HINCH WHOLESALE WAREHOUSE | 3 | 07/15/86 | 324633A | 1 | 111.1 | 1 | 07/30/86 | 1 |
| 460302X | HINCH WHOLESALE | 3 | 01/10/85 | 323203A | 2 | 111.1 | 1 | 12/16/85 | 1 |
| 461531T | HOBAS PIPE USA INC | 3 | 04/20/87 | 330165A | 1 | 116.5 | 1 | 06/12/87 | 1 |
| 461531T | HOBAS PIPE USA INC | 3 | 01/13/83 | 332063A | 2 | 116.5 | 2 | 05/10/88 | 1 |
| 461531T | HOBAS PIPE USA INC | 3 | 01/13/83 | 332063A | 2 | 116.4 | 2 | 03/10/88 | 1 |
| 461126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 12/11/85 | 323402A | 1 | 116.5 | 1 | 02/19/86 | 1 |
| 461126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 12/11/85 | 323402A | 1 | 115.162 | 2 | 02/19/86 | 1 |
| 460126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 04/22/83 | 333504A | 2 | 116.4 | 3 | 09/09/86 | 1 |
| 460126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 06/01/80 | 336535A | 3 | 101.20(1) | 4 | 04/09/92 | 3 |
| 460126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 02/14/80 | 339773A | 4 | 101.20(1) | 5 | 04/09/92 | 3 |
| 460126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 02/14/80 | 339773A | 4 | 115.336(2)(E) | 6 | 04/09/92 | 3 |
| 460126Q | HOECHST CELANESE CHEMICAL GROUP | 3 | 02/14/80 | 339773A | 4 | 115.336(2)(F) | 7 | 04/09/92 | 3 |

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Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

July 10, 1996

Mr. Thomas E. Hord
Vice President
HERCULES MARINE SERVICES
CORPORATION
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair Facility
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

Your application for a permit application is under review. The Texas Clean Air Act and 30 TAC Section 116.131 (Regulation VI) require that you provide public notification as follows:

1. Publish information required by §116.132(a) and (b) in two successive issues of a newspaper of general circulation in the municipality nearest where the facility is to be located; refer to the enclosed Examples A and B;
2. Post notice at the proposed site in accordance with §116.133; refer to the enclosed Example C;
3. Provide copies of the publication to agencies and certify that signs have been posted in accordance with §116.134; refer to the enclosed Notification List and Certification Form; and
4. You may also be required to publish notice in an alternate language newspaper and post signs in an alternate language; refer to the enclosed Bilingual Notice Requirements and Bilingual Notice Certification form. Spanish versions of Examples A, B, and C are available upon request by contacting the project engineer referenced below.

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Mr. Thomas E. Hord

Page 2

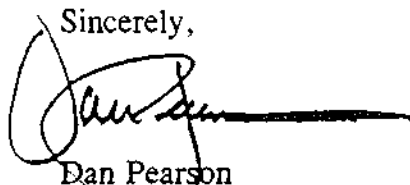
July 10, 1996

Re: Permit No. 32768

Please proceed with these notification procedures within two weeks. Failure to proceed and furnish copies of correct publications to the Texas Natural Resource Conservation Commission and other agencies can result in your application being voided.

If you have any questions concerning these requirements, please contact Ms. Kate Hauer of the Office of Air Quality, New Source Review Division at (512) 239-1372.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Pearson", with a long horizontal line extending to the right.

Dan Pearson
Executive Director
Texas Natural Resource Conservation Commission

DP/KH/bg

Enclosures

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Ms. Gloria Vasquez, Chief Clerk, Austin

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Publication in the Public Notice Section of the Newspaper

TO ALL INTERESTED PERSONS AND PARTIES:

You are hereby notified that **HERCULES MARINE SERVICES CORPORATION** has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. **32768**. This permit, if approved, will authorize construction of a **Facility in Freeport, Brazoria County, Texas**. The location of the existing facility is **906 Marlin**. This facility will emit the following air contaminants: **carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons**.

A copy of all materials in the public file is available for inspection and reproduction at the **TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500**, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing **Ms. Kate Hauer**, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on (a)* and (b)*.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter. If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

.....

see "EXAMPLE A NOTES"

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Notes: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

Publication Elsewhere in the Newspaper

TO ALL INTERESTED PERSONS AND PARTIES:

HERCULES MARINE SERVICES CORPORATION has made application with the Texas Natural Resource Conservation Commission for Air Quality Permit No. **32768** to construct a **Facility in Freeport, Brazoria County, Texas**. The location of the **existing** facility is **906 Marlin**. Additional information concerning this application is contained in the public notice section of this newspaper. This notice is to be published on (a) and (b).

.....

"see "EXAMPLE B NOTES"

Notes: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

NOTIFICATION LIST AND CERTIFICATION FORM

It is the responsibility of the applicant to furnish the following offices with copies of the notices published, a completed copy of any Publishers' Affidavits required (example enclosed), a completed copy of the Bilingual Notice Certification Form, and a completed copy of the sign certification found at the bottom of this page. Originals should be sent to the TNRCC Office of Air Quality, New Source Review Division in Austin.

Environmental Protection Agency
Regional Administrator
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Ms. Karen Atkinson, Manager
Air Program
TNRCC Region No. 12
5425 Polk Street, Suite H
Houston, Texas 77023-1423

Texas Natural Resource
Conservation Commission
Office of Air Quality
New Source Review Division (MC-162)
Ms. Kate Hauer
P.O. Box 13087
Austin, Texas 78711-3087

Leo D. O'Gorman, M.D., Director
Brazoria County Health Department
432 East Mulberry
Angleton, Texas 77515

I certify that the signs required by Title 30 Texas Administrative Code, Section 116.133 were posted in accordance with the provisions of that section. I also certify that copies of the notices and the requested certifications have been furnished to the above listed offices in accordance with §116.134.

Signed by: _____
Title: _____
Company: _____
Date: _____

001025

PERMITS

Title 30 Texas Administrative Code Sections 116.132(c) and 116.133(f) require public notice in each alternate language for which a bilingual educational program at the elementary or middle school nearest the facility is required under the Education Code Section 21.109 and the Title 19 Texas Administrative Code Section 89.2(a).

Bilingual public notification rules require determining whether an applicable program exists at either the elementary or middle school nearest to the proposed facility location. Bilingual education programs are determined on a district-wide basis. When students who are required to attend either school are enrolled in a bilingual education program, §116.132(c) and §116.133(f) apply. Since the school district, and not the schools, must provide the bilingual education program, these programs do not have to be located at the above-mentioned schools.

Section 116.132(c) requires publication of alternate language newspaper notices in a newspaper or publication of general circulation. Publications of alternate language notices must be made in a newspaper or publication printed in each language taught in the bilingual education program, if such a newspaper or publication exists in the municipality or the county where the facility is or will be located. If a general circulation newspaper or publication printed in such language cannot be found, publishing in that language is not required. Publication in an alternate language section or insert within a large publication which is not printed primarily in that alternate language does not satisfy these requirements. **Notice must be published in two consecutive issues if the newspaper is published once a week or more frequently. Otherwise, only one publication is required.**

Section 116.133(f) requires posting of alternate language signs if a bilingual education program is required at the elementary or middle school nearest the facility. A sign in each such language should be posted adjacent to each English language sign. **It is important to note that, if sign posting is required under §116.133(f), the signs must be posted even if the publishing required under §116.132(c) could not be done.**

The applicant has the burden to demonstrate compliance with §116.132(c) and §116.133(f). To satisfy this burden, the applicant must:

A. Certify that either:

- (1) A diligent search found that there are no bilingual educational program requirements; or
- (2) A bilingual educational program is required; and

B. If a bilingual educational program is required, the applicant must:

- (1) Certify which languages are required in the program and post signs in those languages, and
- (2) Publish notices in each of those languages and provide copies of the required publications in each language; or
- (3) Certify the applicant conducted a diligent search and:
 - a. Found no appropriate newspapers or publications in the specified languages; or
 - b. The applicant found appropriate newspapers or publications, but the publisher(s) of the newspapers refused to publish notice, (the applicant must specify which newspaper or publication refused to publish notice).

It is suggested the applicant work with the local school district to do the following:

- (a) determine if a bilingual program is required in the district;
- (b) locate the nearest elementary and middle schools;
- (c) determine if any students required to attend either school are enrolled in a bilingual educational program; and
- (d) which languages are utilized by the students enrolled in the program.

***Public notice examples in Spanish are available from the permit engineer upon request.**

BILINGUAL NOTICE CERTIFICATION FORM

I certify that, by signifying answers with initials:

Initials

- (a) I have contacted the appropriate school district, and a bilingual program exists in the district; _____

- or, I have contacted the appropriate school district, and NO bilingual program exists in the district _____

School District: _____
Contacted: _____
Date: _____

- (b) The name of the elementary school nearest to the proposed facility is: _____

- (c) The name of the middle school nearest to the proposed facility is: _____

- (e) Students who are required to attend one of the schools above are enrolled in a bilingual program provided by the district; _____ Yes _____ No

- (f) The following language(s) is/are utilized by students enrolled in the program: _____

Signed by: _____
Title: _____

Company: _____
Date: _____

If an applicable bilingual program exists, post signs and publish notice as outlined in "Bilingual Notice Requirements."

- * I certify that the alternate language signs were posted as required in 30 TAC §116.133(f).

Signed by: _____
Title: _____

Company: _____
Date: _____

- * I certify that the company conducted a diligent search for a newspaper or publication of general circulation in the municipality or county in which the facility is located or proposed to be located and that no such newspaper or publication was found in any of the following languages in which notice is required: _____

Signed by: _____
Title: _____

Company: _____
Date: _____

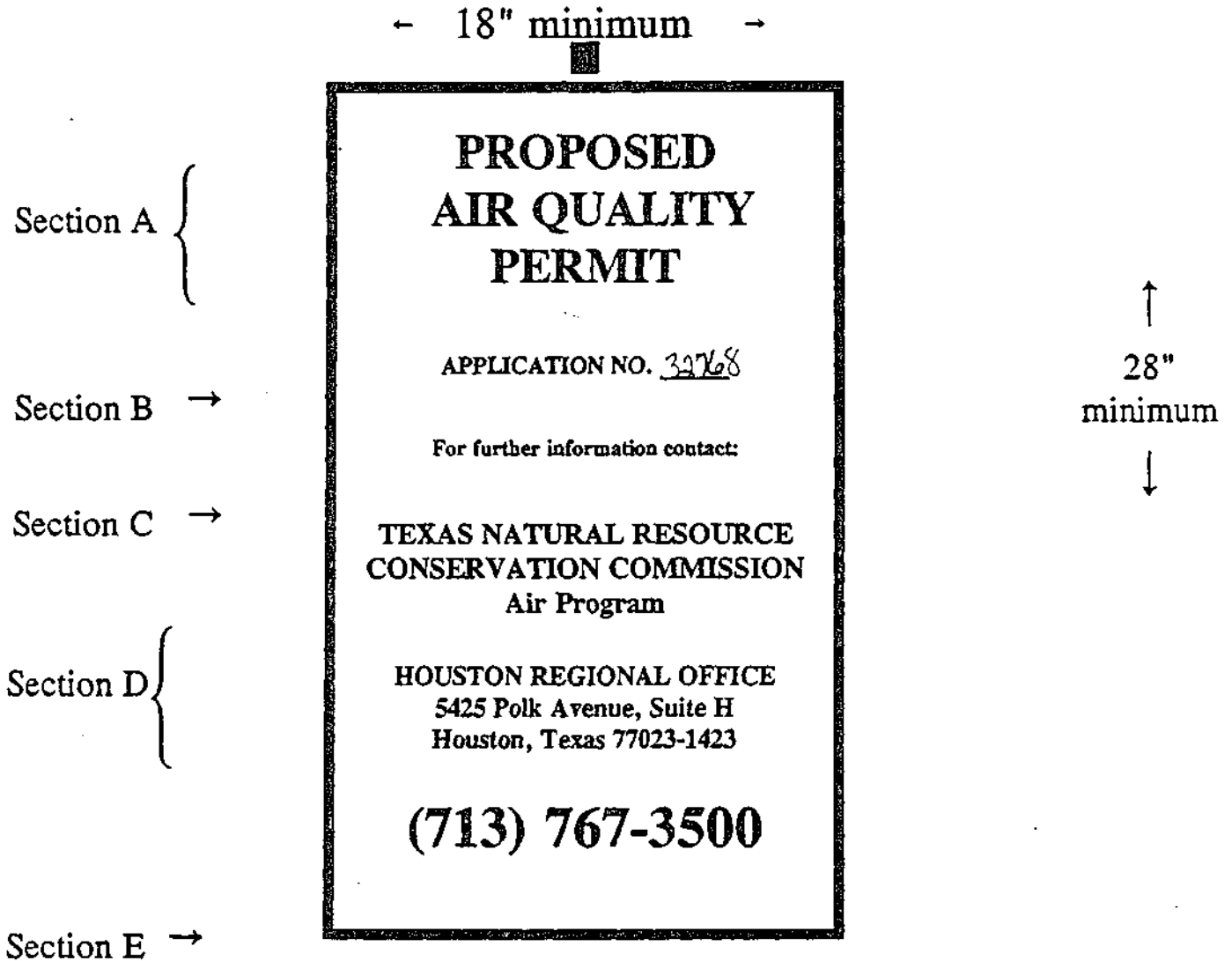
- * I certify that the publishers of the following newspapers have refused to publish notice as requested, and no other newspaper or publication in the same language and of general circulation was found in the municipality or county in which the facility is located or proposed to be located:

Newspaper: _____
Signed by: _____
Title: _____

Language: _____
Company: _____
Date: _____

EXAMPLE C
SIGN POSTING

Sign(s) must be in place on day of publication of first newspaper notice and must remain in place and be legible for the 30-day public comment period (which begins on the last day of newspaper publication). Note - The information shown is an example only. It is your responsibility to verify that the appropriate information pertaining to your application is accurate. Each sign placed at the site must be located within 10 feet of each (every) property line paralleling a street or other public thoroughfare. Signs must be spaced at not more than 1500-foot intervals. A minimum of one sign but not more than three signs shall be required along any property line paralleling a public thoroughfare.



Sign(s) must be placed at whatever height above the ground is necessary for sign(s) to be 100% visible from the street.

WHITE BACKGROUND WITH BLACK LETTERS

Section A - 2" bold-face block printed capitals
Section B - 1" bold-face block printed capitals
Section C - 1/2" lettering

Section D - 1" bold-face caps, 3/4" bold-face lower case
Section E - 2" bold-face numbers

Note: The above are minimum acceptable letter sizes.

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PUBLIC NOTICE CHECKLIST

BEFORE PUBLICATION - Applicants are advised to look over the following items prior to sending the articles to the newspaper for publication. Early correction of any mistakes could prevent republication.

- Does the regional office, the central office, and all appropriate local programs (if any) have a copy of your application to construct?
- Have you received a letter from the TNRCC authorizing public notice?
- Have you determined all alternative language requirements?
- Have you received all appropriate publication examples (including alternate languages) from the TNRCC?
- Have you received all appropriate sign posting examples (including alternate languages) from the TNRCC?
- Will your sign(s) be ready for posting on the first day of publication?
- Have you verified that the example articles enclosed in this package and your prepared sign(s) contain the correct permit application information (i.e., permit application number, air contaminants, regional office address, etc.)? Contact the central office in Austin if errors are found or if you wish to change the contents of the articles or sign(s).
- Do your instructions to the newspaper ensure that all notices will be published in the proper locations and are of the correct sizes?
- Does the newspaper of your choice for the English publication satisfy the requirement: "of general circulation in the municipality nearest where the facility is to be located"? Contact the regional office if you have questions on this matter.
- Does the newspaper of your choice for the alternate language publication satisfy the requirement: "of general circulation in the county where the facility is to be located"? Contact the regional office if you have questions on this matter.
- Have you identified the exact dates of publication for the newspaper(s)?

AFTER PUBLICATION - The following requirements are the responsibility of the applicant and should be completed after publication has been completed:

- Personally check all issues of the paper for your publications to ensure that the articles were accurately published.
- Mail copies of the following items to each office listed on the enclosed Notification List:
 - Copies of all the actual notices attached to the complete page as they were published or a completed publisher's affidavit with one copy of each notice.
 - A completed Notification List and Certification Form and Bilingual Certification Form. (enclosed)
- Originals should be sent to the central office in Austin.
- Inspect the sign posting(s) daily to ensure they are present and visible throughout the public comment period.

A COPY OF THE NEWSPAPER NOTICES PUBLISHED AND THE DATE OF PUBLICATION
MUST BE FURNISHED TO THE AGENCIES INDICATED BELOW BY AN X IN THE BOX.

FEDERAL:

☒ Regional Administrator
Region 6
Environmental Protection Agency
1445 Ross Avenue
Dallas, Texas 75202-2733

☐ Mr. T. C. Michael, Acting Coordinator
Air Pollution Control Program
Department of Environmental
Management
5000 MLK Freeway
Fort Worth, Texas 76119

☐ Mr. Roy Ressel, R.S.
Environmental Health and
Air Pollution Control Program
WICHITA FALLS-WICHITA COUNTY
PUBLIC HEALTH DISTRICT
1700 Third Street
Wichita Falls, Texas 76301-2199

STATE:

☒ Office of Air Quality
New Source Review Division
Texas Natural Resource (MC-162)
Conservation Commission
P.O. Box 13087
Austin, Texas 78711-3087

☐ Mr. Ron Schultz, Director
Pollution Control Division
GALVESTON COUNTY HEALTH
DISTRICT
P. O. Box 939
La Marque, Texas 77568

INTERSTATE PROGRAMS:

☐ Mr. Paul Means, Director
ARKANSAS DEPARTMENT OF
POLLUTION CONTROL AND
ECOLOGY
P. O. Box 9583
Little Rock, Arkansas 72209

☒ Texas Natural Resource
Conservation Commission
Regional Office, Air Program
(in the region where the facility is to be
constructed)

☐ Mr. Rob Barrett, Director
HARRIS COUNTY POLLUTION
CONTROL DEPARTMENT
P. O. Box 6031
Pasadena, Texas 77506

☐ Mr. Mike McDaniel
Assistant Secretary
OFFICE OF ENVIRONMENTAL
AFFAIRS
P. O. Box 44006
Baton Rouge, Louisiana 70804

LOCAL PROGRAMS:

☐ Mr. Fred Rodgers, P.E.
Executive Officer
AUSTIN-TRAVIS COUNTY
HEALTH DEPARTMENT
15 Waller Street
Austin, Texas 78702

☐ Mr. David Fetterman, P.E.
Bureau of Air Quality Control
Environmental Health Division
DEPARTMENT OF HEALTH AND
HUMAN SERVICES
7411 Park Place
Houston, Texas 77087

☐ Mr. Michael J. Burkhardt
NEW MEXICO ENVIRONMENTAL
IMPROVEMENT AGENCY
P. O. Box 968
Santa Fe, New Mexico 87504-0968

☐ Mr. Roger Ramon,
Air Quality Specialist
CITY OF AUSTIN
P.O. Box 1088
Austin, Texas 78767

☐ Mr. Lonnie Carethers, Public Health
Supervisor
IRVING DEPARTMENT OF HEALTH
825 West Irving Boulevard
Irving, Texas 75060

☐ Mr. John W. Drake
Chief, Air Quality Service
OKLAHOMA STATE DEPARTMENT OF
HEALTH
P. O. Box 53551
Oklahoma City, Oklahoma 73153

☒ Leo D. O'Gorman, M.D., Director
BRAZORIA COUNTY HEALTH
DEPARTMENT
432 East Mulberry
Angleton, Texas 77515

☐ Mr. Steven L. Bacchus
Director of Utilities
CITY OF LEWISVILLE
151 West Church Street
Lewisville, Texas 75067

☐ Mr. Scott Hudson, R.S.
Technical Services Division
City of Carrollton Environmental
Health Department
P.O. Box 110535
Carrollton, Texas 75011

☐ Mr. Dale Allred, R.S.
Environmental Health Officer
CITY OF NACOGDOCHES
P. O. Box 648
Nacogdoches, Texas 75961

☐ Mr. Gene Lipnicky, P.E.
Air Pollution Control Program
DEPARTMENT OF HEALTH
AND HUMAN SERVICES
320 E. Jefferson Street
Dallas, Texas 75203

☐ Mr. Thomas Hatfield
Director of Health
CITY OF RICHARDSON
P. O. Box 309
Richardson, Texas 75080

☐ Mr. Jesus J. Reynoso, Program Supervisor
EL PASO CITY-COUNTY HEALTH
DISTRICT
1148 Airway Boulevard, Room 155
El Paso, Texas 79925

☐ Mr. Sam Sanchez, Chief Sanitarian
Division of Environmental Services
CITY OF SAN ANTONIO
332 West Commerce
San Antonio, Texas 78205

☐ Mr. Tom McDougald, R.S.
Environmental Health Officer
CITY OF FARMERS BRANCH
P. O. Box 340435
Farmers Branch, Texas 75234

☐ Mr. Richard Stolleis, Director
CITY OF SUGAR LAND
P. O. Box 110
Sugar Land, Texas 77487-0110

☐ Mr. Al Holguin, City Administrator
CITY OF WEBSTER
311 Pennsylvania
Webster, Texas 77598

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Example A Notes

1. **THIS PUBLIC NOTICE EXAMPLE IS PROVIDED BY THE TNRCC TO ASSIST THE APPLICANT IN THE PREPARATION OF THE NOTICE. THE APPLICANT IS RESPONSIBLE FOR ENSURING THE ACCURACY OF ALL INFORMATION PUBLISHED. ERRORS IN PUBLICATION MAY RESULT IN THE NECESSITY TO REPUBLISH NOTICE AT THE EXPENSE OF THE APPLICANT.**
2. This notice should be published in a newspaper of general circulation in the municipality nearest where the facility is to be located. The notice must be published in **two consecutive issues**, but not on the same date.
3. This notice (Example A) must appear in the **public notice section** of the newspaper.
4. The first paragraph of the public notice must contain the following information (please check these items for accuracy):
 - Name of permit applicant (company name).
 - Permit Application Number assigned by the TNRCC.
 - Name of unit to be permitted (i.e.; boiler, refinery, hot-mix asphalt plant, etc.).
 - City or town where permit unit is to be located. If outside the corporate limits of a city or town, list the nearest city or town.
 - County where permit unit is to be located.
 - Indication as to whether the application is for a proposed new facility, modification of an existing facility or proposed expansion project.
 - Description of location of permit unit in terms easily understood by the general public such as a street address or distance and direction from a public road, highway intersection or well-known landmark.
 - Air contaminants to be emitted.
5. The second paragraph must contain the addresses and telephone numbers of the TNRCC Central Office and the appropriate TNRCC regional office.
6. The blanks labeled (a) and (b) must be filled in with the two publication dates of the notice.
7. The notice shown in Example B must be published elsewhere in the same issues of the newspaper on the same dates that Example A is published.

Example B Notes

1. **THIS PUBLIC NOTICE EXAMPLE IS PROVIDED BY THE TNRCC TO ASSIST THE APPLICANT IN THE PREPARATION OF THE NOTICE. THE APPLICANT IS RESPONSIBLE FOR ENSURING THE ACCURACY OF ALL INFORMATION PUBLISHED. ERRORS IN PUBLICATION MAY RESULT IN THE NECESSITY TO REPUBLISH NOTICE AT THE EXPENSE OF THE APPLICANT.**
2. This notice must be at least 96.8 square centimeters (15 square inches) with the shortest dimension at least 7.6 centimeters (3 inches).
3. This notice is intended to refer the public to the "Public Notice" section of the newspaper for more information regarding the permit application. This notice must be published in a prominent location (other than the public notice section) in the same two issues of the newspaper as the other required notice (Example A).
4. This notice must contain the following information (please check these items for accuracy):
 - Name of permit applicant (Company Name).
 - Permit Application Number assigned by the TNRCC.
 - Name of unit to be permitted.
 - Nearest City and County in which the facility will be located.

Description of location of permit unit in terms easily understood by the general public such as a street address or distance and direction from a public road, highway intersection or well-known landmark.
5. The blanks labeled (a) and (b) must be filled in with the two publication dates of the notice.

Revised 05-22-96

001032

PUBLISHER'S AFFIDAVIT

Notice is hereby given that application for Permit No. 3058A has been submitted to the Texas Natural Resource Conservation Commission (TNRCC) by the XXXX Manufacturing Company for its facility located at 1400 W. Smith Street, Anytown, Any County, Texas. The facility has a steam generator and a waste alcohol recovery system. Air contaminants that can be emitted by this facility are: particulate matter, sulfur oxides, nitrogen oxides, carbon monoxide, and volatile organic compounds. Copies of the completed applications and TNRCC preliminary analysis are available for review at TNRCC Region No. XX at XXX Boulevard, XX Town, Texas 78000, Ph XXXXXXXX.

and TNRCC Office of Air Quality New Source Review Division (MC-162), P. O. Box 13087, Austin, Texas 78711-3087, (512) 239-1250. Any interested person may inspect these materials and submit written comments to the Executive Director of the TNRCC, including requests for public hearing pursuant to Section 3.27(c) of the Texas Clean Air Act. All comments and hearing requests must be submitted by December 28, 1992. All written correspondence and hearing requests submitted to the Executive Director shall be considered in determining whether or not the facility will be permitted.

TO ALL INTERESTED PERSONS AND PARTIES

The X Manufacturing Company has made application for Permit No. 3058A to the Texas Natural Resource Conservation Commission for a steam generator and a waste alcohol recovery system located at 1400 W. Smith Street, Anytown, Any County, Texas. Additional information concerning this application is contained in the public notice section of the newspaper.

STATE OF TEXAS
County of Any Where

Before me, the undersigned authority, on this day personally appeared

Jane Doe
of Anytown News-Journal, a daily newspaper of general circulation, published at Anytown, in Any County, Texas who deposes and says that the advertisement, as per copy attached, was published in the regular issue of the:

12th and 13th

May, 1996

Signed: Jane Doe

Subscribed and sworn to before me this the 20 day of May, 1996.

001033

Mary Smith

Notary Public in and for Any Where County, Texas
My Commission expires 00-00-00

- ☒ Add
☐ Change
☐ Delete

- ☐ VIOLATION
☐ VIOLATION FOLLOW-UP

DISTRIBUTION:
White - Region/Local Program
Cafery - Data Entry/Region
Pink - Investigator/Data Entry

TNRCC INVESTIGATION/VIOLATION FORM
(Boldfaced items are required)

8/12/96

Account Number B L 0 1 1 8 V Account Name Hercules Marine Services Corp
Date of Investigation (as MMDDYY) 07 01 96 Off Hours: ☐ Yes ☒ No
1 Investigator Staffcode CCB1 Permit(s) _____
Primary Investigator Juriscode 120 Other Juriscode 1 _____ Other Juriscode 2 _____
Site Name/Location Hercules Marine Services Corp / Freeport
Person Contacted/Phone _____

Investigation Number 079994A Related Previous Investigation Number _____
Federal Program: ☐ Yes ☐ No NSPS: ☐ Yes ☐ No NESHAP: ☐ Yes ☐ No Situation Number _____
(COMPLIANCE DIV. ONLY)
2 • Investigation Type P M S I In-House Investigation: ☐ Yes ☒ No →EPN
Comment Conducted site review and determined no violations to permit + lagoon
issued. Fixed RFE on 7/17/96.
Date Test Conducted (as MMDDYY) _____ Date Report Received (as MMDDYY) _____
Analysis Review Results (C,N,U) _____ Permits(s) _____ Retest Required: ☐ Yes ☐ No

Investigation Number _____ Related Previous Investigation Number _____
Federal Program: ☐ Yes ☐ No NSPS: ☐ Yes ☐ No NESHAP: ☐ Yes ☐ No Situation Number _____
(COMPLIANCE DIV. ONLY)
3 • Investigation Type _____ In-House Investigation: ☐ Yes ☐ No →EPN
Comment _____

Investigation Number _____ Local Ordinance: ☐ Yes ☐ No
Violation Number _____ (changes/deletes only) Situation Number _____ (Compliance Div. only)
Cause/Description _____ (Compliance Div. only)
Rule Violated _____ Contamcode _____
4 Fill in the following applicable items:
Permit Number _____ Permit Provision _____
Board Order Number _____ Court Order Number _____ CFR Part _____
• FIN Involved _____ Facility Name (optional) _____
Violation Type: ☐ Clerical ☐ Non-Clerical ☐ Imminent Danger Date NOV Sent (as MMDDYY) _____
Date NOV Received (as MMDDYY) _____ (defaults to 5 days after date NOV sent)

Investigation Number _____ Local Ordinance: ☐ Yes ☐ No
Violation Number _____ (changes/deletes only) Situation Number _____ (Compliance Div. only)
Cause/Description _____ (Compliance Div. only)
Rule Violated _____ Contamcode _____
4 Fill in the following applicable items:
Permit Number _____ Permit Provision _____
Board Order Number _____ Court Order Number _____ CFR Part _____
• FIN Involved _____ Facility Name (optional) _____
Violation Type: ☐ Clerical ☐ Non-Clerical ☐ Imminent Danger Date NOV Sent (as MMDDYY) _____
Date NOV Received (as MMDDYY) _____ (defaults to 5 days after date NOV sent)

- See back for valid codes and investigation type codes matrix
- EPN required for investigation types indicated on back with an *
- FIN required for VOC violations as indicated with a + in the user's manual rule table

001034

Investigator signature Andree C. Bartlett

Date 7-3-96

Approved by Jimmy Paddy

Date 7/19/96

001035

Request for Comments -- Site Review/Compliance History
RESPONSE

TO: Sridharan Raj, New Source Review Program, Austin

FROM: Region: 12

City: Freeport, Texas

County: Brazoria

Compliance: _____ Legal: _____

Copy of Application Received by your Office: ☒ YES ☒ NO Date Received: 7-16-96

PERMIT NO.: 32768

TNRCC ACCOUNT NUMBER: BL-0118-V

Investigator's/Compliance Officer's Name (Please Print): Candace C. Bartlett

Organization TNRCC

Phone: 713-767-3733

Comments Deadline (from pg. 1): 7/21/96

Date of Last Site Visit: 7-1-96

SITE INFORMATION:

Nuisance/Odor Potential: ☐ Low ☐ Moderate ☒ High

Hazard Potential: ☐ Low ☒ Moderate ☐ High

Surrounding Land Use: Industrial and residential, some commercial businesses are located near the facility.

School within 3,000 feet? ☐ Yes ☒ No

Distance to Nearest Off-Property Receptor: 650ft approx.

Receptor Type: ☐ School ☐ Residence ☒ Other Storage tank (Industrial)

Describe area surrounding nearest receptor: The area is primarily industrial with storage tanks and heavy equipment

Distance from unit to nearest property line: 250 ft approx

NOV INFORMATION (concerning affected process unit):

Type of Site: ☐ Existing ☐ Similar in Texas ☐ Similar in U.S.

NOV Issued? ☒ No ☐ Yes Date: _____

Type of Violation: _____

Please provide any information the permit engineer needs concerning the current NOV status:

Summarize any recent complaints related to this facility: The facility has had numerous dust complaints filed against it however they have not been confirmed for nuisance. The last complaint was called in 12/95. Confirmed nuisance in 1989-88 7/17/96

Recommendation based on Compliance History: (*For Compliance Use Only)

001036

☒ Proceed with Permit Review ☐ Additional Provisions ☐ Deny Permit

08/06/86

15:06

512 239 1400

TNRCC AIR PERMIT --- REG 12

003/003

SITE REVIEW:

In light of the proximity of sensitive receptors and the surrounding land use, please discuss any concerns you have concerning a facility of this type locating at the proposed site.

The only concerns worth noting is that Regor 12 office has had numerous complaints filed against the facility. One complainant in particular has been consistent in notifying the agency of alleged nuisances. The complainant has written his senator, has had meetings with the City of Freeport officials and has contacted EPA in regards to Hercules.
This past August 1995, the files for Hercules was examined by personnel from the Sierra Club.

001037

VIOLATION DETAIL REPORT FOR REGION 12

VIOLATIONS DETECTED SINCE 7/1/82

| ACCOUNT NUMBER | ACCOUNT NAME | CLASS | INVEST DATE | INVEST NO | SIT NO | RULE VIOLATED | VIOL NBR | VIOLATION RESOLVED | COURSE OF ACTION |
|----------------|-----------------------------------|-------|-------------|-----------|--------|---------------|----------|--------------------|------------------|
| BL0031L | HERBERT A. WEITMAN COMPANY INC | 1 | 12/09/82 | 320157A | 2 | 4.01(A) | 3 | 01/26/83 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 08/09/82 | 336610A | 1 | 332.091(A) | 2 | 10/02/89 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 12/09/82 | 336610A | 1 | 101.4 | 1 | 10/02/89 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 116.4 | 5 | 10/19/92 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 116.4 | 6 | 10/19/92 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 115.132(A) | 3 | 10/19/92 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 116.4 | 3 | 10/19/92 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 115.112(A)(1) | 7 | 10/19/92 | I |
| BL0110V | HERCULES REAL ESTATE CORPORATION | 3 | 05/13/92 | 342561A | 2 | 116.4 | 4 | 10/19/92 | I |
| 740037J | HERMAN ALLMAN PROPERTY | 3 | 06/24/87 | 170558A | 1 | 111.1 | 1 | 07/23/87 | I |
| BL0105H | HESS COAT INC | 3 | | JUNKOWN | 1 | 116.1 | 1 | 03/26/85 | I |
| FG0372D | HI LO AUTO SUPPLY CO. 12 | 3 | 11/08/74 | 022263A | 1 | 114.1(F) | 1 | 03/30/94 | I |
| FG0372D | HI LO AUTO SUPPLY CO. 12 | 3 | 05/20/93 | 346510A | 1 | 114.1(F) | 1 | 08/06/93 | I |
| 4G0325S | HI POINT INDUSTRIES INC | 3 | 03/31/82 | 335597A | 1 | 101.6 | 1 | 06/12/89 | I |
| FG0322V | HI TECH MACHINES INC. | 3 | 05/12/92 | 342612A | 1 | 116.4 | 1 | 12/07/92 | I |
| 4G0372V | HI TECH SPECIALTIES | 3 | 05/21/92 | 342633A | 1 | 116.1 | 1 | 06/29/92 | I |
| BL0010X | HI-CHEN, INC. | 3 | 11/22/84 | 321323A | 17 | 101.6 | 1 | 03/19/85 | I |
| BL0010X | HI-CHEN, INC. | 3 | 06/22/84 | 321323A | 10 | 116.1 | 2 | 03/19/85 | I |
| BL0010X | HI-CHEN, INC. | 3 | 07/13/91 | 341135A | 11 | 101.6 | 3 | 02/07/92 | I |
| BL0032X | HI-TEX TUNING LTD | 3 | 06/23/84 | 321647A | 2 | 111.1 | 1 | 07/13/84 | I |
| BL0016X | HINDING DOORING & SHIRT | 3 | 07/02/85 | 322732A | 16 | 111.1 | 1 | 08/02/85 | I |
| 4X0017J | HIGHLAND AUTO PAINT AND BODY | 3 | 02/26/75 | 357747A | 1 | 116.110(A) | 1 | | I |
| 4F0021J | HIGHWAY AUTO PARTS | 3 | 11/09/87 | 321621A | 1 | 111.1 | 1 | 01/08/88 | I |
| 4F0021J | HIGHWAY AUTO PARTS | 3 | 02/01/89 | 327163A | 2 | 111.101 | 2 | 12/03/89 | I |
| 4G1553V | HIGHWAY PIPELINE TRUCKING COMPANY | 3 | 11/07/86 | 329702A | 1 | 116.4 | 2 | 12/08/86 | I |
| 4G1553V | HIGHWAY PIPELINE TRUCKING COMPANY | 3 | 11/07/86 | 329702A | 1 | 111.22 | 1 | 12/08/86 | I |
| BL0013X | HILLS WASTE SERVICES | 3 | 01/13/85 | 322252A | 13 | 111.1 | 1 | 12/11/85 | I |
| BL0013X | HILLS WASTE SERVICES | 3 | 07/17/92 | 343222A | 14 | 332.085(A) | 3 | 12/16/92 | I |
| BL0013X | HILLS WASTE SERVICES | 3 | 07/17/92 | 343222A | 14 | 101.4 | 2 | 12/16/92 | I |
| FG0420D | HINES MURSERIES | 3 | 10/24/74 | 354366A | 1 | 111.101 | 1 | 01/13/95 | I |
| FG0393J | HINES WHOLESALE MURSERIES | 3 | 07/15/76 | 328633A | 1 | 111.1 | 1 | 07/30/86 | I |
| 4F0002X | HINZ BARRIERS | 3 | 11/10/85 | 323023A | 2 | 111.1 | 1 | 12/16/85 | I |
| 4G1551T | HOBAS PIPE USA INC | 3 | 04/20/87 | 330165A | 1 | 116.5 | 1 | 06/12/87 | I |
| 4G1551T | HOBAS PIPE USA INC | 3 | 11/10/88 | 332013A | 2 | 116.5 | 2 | 03/10/88 | I |
| 4G1551T | HOBAS PIPE USA INC | 3 | 01/13/88 | 332063A | 2 | 116.4 | 2 | 03/10/88 | I |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 12/11/85 | 323402A | 1 | 116.5 | 1 | 02/19/86 | I |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 12/11/85 | 323402A | 1 | 115.162 | 2 | 02/19/86 | I |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 03/20/85 | 323504A | 2 | 116.4 | 3 | 03/03/83 | I |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 06/01/90 | 330546A | 3 | 101.20(1) | 4 | 04/09/92 | 3 |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 07/14/90 | 330733A | 4 | 101.20(1) | 5 | 04/09/92 | 3 |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 07/14/90 | 330733A | 4 | 115.336(2)(5) | 6 | 04/09/92 | 3 |
| 4G1126D | HOBCHST DELAWARE CHEMICAL GROUP | 3 | 07/14/90 | 330733A | 4 | 115.336(2)(F) | 7 | 04/09/92 | 3 |

001038

NOTIFICATION LIST AND CERTIFICATION FORM

It is the responsibility of the applicant to furnish the following offices with copies of the notices published, a completed copy of any Publishers' Affidavits required (example enclosed), a completed copy of the Bilingual Notice Certification Form, and a completed copy of the sign certification found at the bottom of this page. Originals should be sent to the TNRCC Office of Air Quality, New Source Review Division in Austin.

Environmental Protection Agency
Regional Administrator
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Ms. Karen Atkinson, Manager
Air Program
TNRCC Region No. 12
5425 Polk Street, Suite H
Houston, Texas 77023-1423

Texas Natural Resource
Conservation Commission
Office of Air Quality
New Source Review Division (MC-162)
Ms. Kate Hauer
P.O. Box 13087
Austin, Texas 78711-3087

Leo D. O'Gorman, M.D., Director
Brazoria County Health Department
432 East Mulberry
Angleton, Texas 77515

I certify that the signs required by Title 30 Texas Administrative Code, Section 116.133 were posted in accordance with the provisions of that section. I also certify that copies of the notices and the requested certifications have been furnished to the above listed offices in accordance with §116.134.

Signed by: Johnna Bourrous
Title: Administrative Assistant
Company: Hercules Marine Services Corporation
Date: August 22, 1996

RECEIVED

AUG 12 1996

PERMITS PROGRAM

001039

BILINGUAL NOTICE CERTIFICATION FORM

I certify that, by signifying answers with initials:

Initials

- (a) I have contacted the appropriate school district, and a bilingual program exists in the district;
- or, I have contacted the appropriate school district, and NO bilingual program exists in the district

JB

School District: Brazosport Independent School District
Contacted: Rosemary Garcia 409-233-8416
Date: July 22, 1996

- (b) The name of the elementary school nearest to the proposed facility is:
Velasco Elementary
- (c) The name of the middle school nearest to the proposed facility is:
Freeport Lanier Middle School
- (e) Students who are required to attend one of the schools above are enrolled in a bilingual program provided by the district; Yes X No
- (f) The following language(s) is/are utilized by students enrolled in the program:

JB

JB

JB

Signed by: Anna Bourrous
Title: Administrative Assistant

Company: Hercules Marine Services Corp.
Date: August 22, 1996

If an applicable bilingual program exists, post signs and publish notice as outlined in "Bilingual Notice Requirements."

- * I certify that the alternate language signs were posted as required in 30 TAC §116.133(f).

Signed by: Anna Bourrous
Title: Administrative Assistant

Company: Hercules Marine Services Corp.
Date: August 22, 1996

- * I certify that the company conducted a diligent search for a newspaper or publication of general circulation in the municipality or county in which the facility is located or proposed to be located and that no such newspaper or publication was found in any of the following languages in which notice is required: _____

Signed by: _____
Title: _____

Company: _____
Date: _____

- * I certify that the publishers of the following newspapers have refused to publish notice as requested, and no other newspaper or publication in the same language and of general circulation was found in the municipality or county in which the facility is located or proposed to be located:

Newspaper: _____
Signed by: _____
Title: _____

Language: _____
Company: _____
Date: _____

001040

**TO ALL INTERESTED
PERSONS AND
PARTIES:**

You are hereby notified that **HERCULES MARINE SERVICES CORPORATION** has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. 32768. This permit, if approved, will authorize construction of an air pollution control unit in Freeport, Brazoria County, Texas. The location of the existing facility is 906 Martin. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing Ms. Kate Hauer, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on 7/30/96 and 7/31/96.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter. If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

**THE STATE OF TEXAS
COUNTY OF BRAZORIA**

Before me, the undersigned authority, on this day personally appeared

Billy J. Cornwell, Jr.

who, after being duly sworn, did depose and say:

My name is Billy J. Cornwell, Jr.

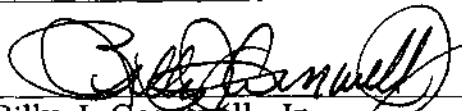
Publisher of The Brazosport Facts, a daily newspaper as that term is defined by Art. 28 a R.C.S. of Texas 1925, as amended, having a general circulation in Brazoria County and published in the City of Clute, County of Brazoria, State of Texas.

The attached printed matter is a true and correct copy of the publication of

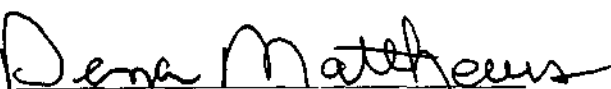
AIR QUALITY PERMIT #32768

which was published and appeared in said newspaper, with publication being on the following date(s): July 30 & 31, 1996

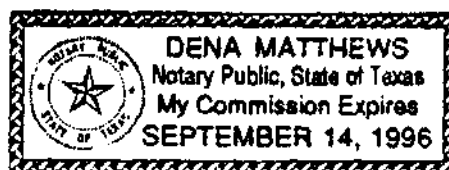
My fee is \$205.80


Billy J. Cornwell, Jr.

Given under my hand and seal of office on this 31st day of July, A.D. 1996


Dena Matthews

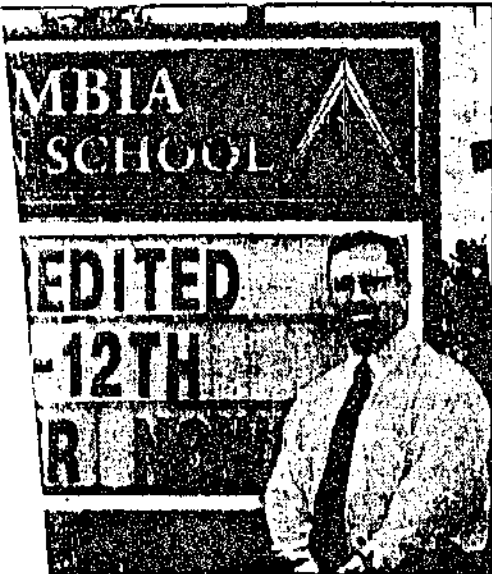
Notary Public in and for
Brazoria County, Texas.
My commission expires 09/14/96



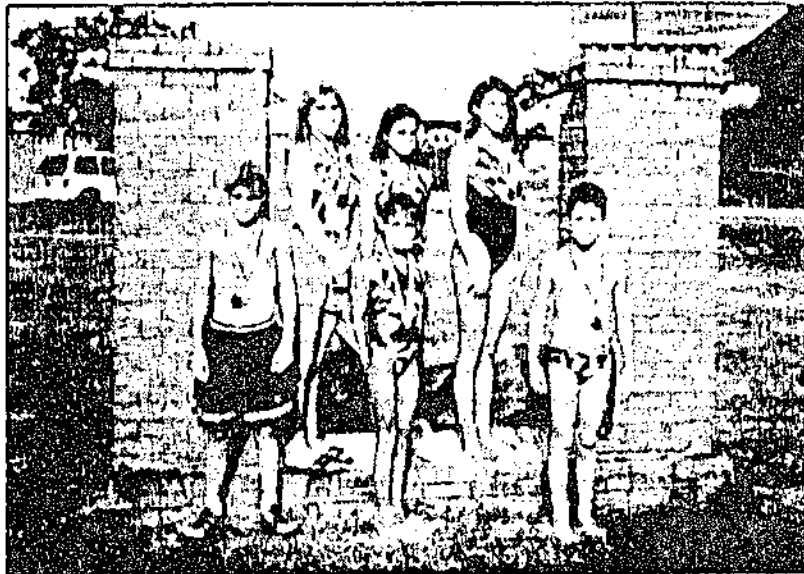
001041

SPORTS

TIMEOUT



of the new athletic director at West Columbia recently. From Lifestyle Christian School will compete in the Texas Parochial Schools (TAPPS) Athletic League (TCAL).



FAST Swimmers

The Freeport Area Swim Team (FAST) qualified three swimmers and three alternates for the Texas Amateur Athletic Federation meet, which was held this past weekend in Waco. Those swimmers include: (bottom row, from left) Zachary Clements, Grace Salinas, Ryan Barcot; (top row) Lucy Saccomanno, Julie Salinas and Sarah Salinas.

TO ALL INTERESTED PERSONS AND PARTIES

HERCULES MARINE SERVICES CORPORATION has made application with the Texas Natural Resource Conservation Commission for Air Quality Permit No. 32768 to construct an Air Pollution Control Unit in **Freeport, Brazoria County, Texas**. The location of the existing facility is 906 Marlin. Additional information concerning this application is contained in the public notice section of this newspaper. This notice is to be published on 7/30/96 and 7/31/96.

001042

Ramon E. Garcia.

All eight were charged with conspiracy to make and possess explosive devices. Four also were charged with making explosive devices.

Their objective was "to make and possess destructive devices including, but not limited to pipe bombs," FBI agent Burdena Pasenelli said.

The eight planned to use the devices "to arm themselves for what they believed would be an eventual confrontation with the United States government or the United Nations," according to court documents.

At Monday's court hearing, one of the men charged, William Smith, requested "an American flag" be in the courtroom at future

hearings. U.S. Magistrate David E. Wilson said he had no objection.

Seven of the defendants accepted court-appointed counsel and are due in court Thursday for a detention hearing.

Smith, who said he hasn't decided whether he will accept counsel, will appear in court for his detention hearing Monday.

Hospital

Continued from Page 1A

Shaffett could not be reached for comment Monday.

The largest impact of an emergency room closing would be from "out of service time" said Schmitz. Traveling to another hospital out of town would increase the amount of time that Alvin would not have a staffed EMS station.

Currently, authorization for any out-of-town EMS run has to be approved by Schmitz because it takes an ambulance out of service for more than an hour.

"That's our biggest concern about them closing down," said

Schmitz. "Right now we can turn an ambulance around within 30 or 40 minutes. If we had to transport out of town, it would take considerably longer."

Currently there is no scheduled "on-call" ambulance staff in the city.

"For a backup call, we rely on volunteers that would be around town. We only go out of town if we know we have people available," said Schmitz.

Norwood said Monday that nothing at the hospital has affected current city budget projections or proposals.

"From what I've heard, the emergency room will continue to stay open," he said.

The city's current preliminary budget proposal calls for a patient transport fee for EMS ambulances traveling more than 10 miles.

For every mile after 10 miles, the proposal asks for a \$5 per mile rate.

Most places in the city would be under this 10-mile limit if Columbia-Alvin hospital's emergency room is the facility of choice, but not if the ambulances had to use another facility.

TO ALL INTERESTED PERSONS AND PARTIES

HERCULES MARINE SERVICES CORPORATION has made application with the Texas Natural Resource Conservation Commission for Air Quality Permit No. 32768 to construct an Air Pollution Control Unit in **Freeport, Brazoria County, Texas.** The location of the existing facility is 906 Marlin. Additional information concerning this application is contained in the public notice section of this newspaper. This notice is to be published on 7/30/96 and 7/31/96.

181 Houses For Sale

APT. 3-2-2 det. in front of 2nd. Seller will pay \$1,000 buyers closing cost, total. Remodeled. Call Manal at 3052. **ALDOUS REAL ESTATE**, 297-1228.

GREAT LOCATION! \$5,900. 321 Oak Dr. 1/2-1, cash (2 years old), hardwood floors, home warranty. 235-8413. The Prudential Shaver Real Estate.

GREAT TERMS for first time buyer (or haven't owned home in 3 yrs). Come by & talk with us about buying a home now. **PROPERTY SERVICES**, 297-3073.

IN A HURRY? Get in quick! 4 BR, 2 BA, near northside elem. Payments less than rent. Hi \$30's. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

AC 6 1/2 acres, fenced yard and pasture. 3-2-2 brick, CASH, very private! ABC Realty 297-9900.

JONES CREEK. Brick 3-2-2, 1800 sq. ft. Built-ins, replace, dining room, on 1/2 acre. \$82,900. 233-4789.

JONES CREEK. 118 Nelson. By owner! Updated 3-2-2, CH&A, dining room, utility room, fireplace, screen porch, extras. \$71,500. 239-2977.

LAKE JACKSON. 101 Dahlia. Beautiful Victorian style home. 3-2-2, formal dining room, den, breakfast area, kitchen, laundry, screened deck, vinyl siding, beautifully landscaped, wooded backyard, 8x10 utility barn. \$124,900. 297-0854 nights, 238-3529 days.

LAKE JACKSON. 4-2 1/2 two story on .33 wooded acres. 2700 sq. ft., large parlor, large fireplace. \$135,000. 326 Rabbit Trail. Apts only 297-0990.

LANDSCAPED LOT adds nice touch to this 3 BR, 2 BA brick home in Richwood. \$60's. Owner motivated. **GREG FLANKEN & ASSOC.** 233-7828.

LIFETIME HOME in a beautiful setting. Gracious living will be yours in this 5BR, 3BA, 2 half baths home w/ formal living & dining rooms plus gameroom. Loaded w/ amenities. Magazine picture home in Timbercreek. **L.J. PROPERTY SERVICES**, 297-3073.

L.J. 215 PALM LN 3-1-1, CH&A, Beautiful School Dist. \$48,900. 1-800-470-7808.

L.J. 3-1-1, CH&A, fenced, new roof, interior paint & vinyl. \$47,900. Owner/Broker. 297-8344.

L.J. 3-2-2 Split bedroom plan. New carpet, paint, disposal, and central heat. \$66,000. Call Pat at 265-2324.

MID-COASTAL PROPERTIES 297-2842

L.J. BY OWNER MUST SELL! Very nice 4-2-2. New paint & flooring, nice neighborhood, low \$70's. Possible owner finance with large down. 265-0693.

LOCATED ON CUL-DE-SAC. 3BR brk home w/ family rm or 4th BR, lg fenced wooded lot. **L.J. PROPERTY SERVICES**, 297-3073.

LOOKS LIKE BREN HAM, just north of Angleton. 40 acres, 2 stocked lakes. Tin roof, wrap porch, lg bedrooms, block panning, fantastic kitchen & much more. All on very high ground just north of town. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

181 Houses For Sale

MUST SEE this Jones Creek home. 4 BR, 2 BA brick with oversized two car garage, shaded lot. \$70's. **GREG FLANKEN & ASSOC.** 233-7828.

NATURAL LAKE. Huge pecan & oaks, several acres. Well, septic & electric. \$22,500. Ask for Bob! Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

NEAT 2 story 4 br brick with 2 car and work shop area. See this govt repo for more room. Mid \$50's. ABC Realty 297-9900.

NICE! Like new 2-1-1 in Angleton. Already has VA appraisal. Call Tim O'Neil, 297-1234.

COLDWELL BANKER The Property Company 299-1166

OPEN SUNDAY 2-4 PM Bronco Bend. Drastically reduced. 3-2-2 plus 1-1-1 on 2 oak shaded lots, across from new Dow CU. Cleanest house in town! Drive by & see! Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

PRICE REDUCED! 3 or 4 BR, 2 BA in Jones Creek. Frame home on wooded 1 acre lot. \$20's. **GREG FLANKEN & ASSOC.** 233-7828.

PRICED RIGHT in Angleton. Non-qualifying assumption in the \$50's. 3 BR, 2 BA, 2 car garage. Fenced yard. CH&A. **GREG FLANKEN & ASSOC.** 233-7828.

REDUCED 135 acres with 3 bedroom brick, barn, outbuildings, crossfenced, stocked pond. Will sell all for \$264,500 or 68 acres with house for \$155,000. Call Theresa O'Leary 235-6346 or **ALDOUS REAL ESTATE**, 297-1228.

RICHWOOD. 3-2-2, inside utility, updated carpet, 2 living area + formal dining, near school & pool. Priced in the \$60's. 265-0328.

RICHWOOD. By owner! Brick 3-2-2, inside utility, landscaped, low traffic area, near Polk Elem. \$69,000. 318 Quail Run. By appointment only. 265-3275.

SAN BERNARD RIVER. Outstanding investment on most desirable area. 50+/- 3/4 featuring 4 patio/deck areas, boat lift & boat slips, on 2 bulkheaded lots. Bank says "Sell Now!" Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

SARGENT. Owner financing. 3-2, new carpet & vinyl, ceiling fans, a/c, fenced, community pool, pier, boat ramp & security gates. 713-335-8648.

START HERE. On 1 acre. Sparkling 3-2-1 featuring open living concept, liv. den & dining rooms. Just listed. \$40's. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

SUPPORT THE BRAZORIA COUNTY BOARD OF REALTORS

PUT THE FACTS CLASSIFIED TO WORK FOR YOU.

181 Houses For Sale

SWEENEY. Owner financed small frame, fixer-upper, some major repairs just completed, corner \$15,000. ABC Realty 297-9900.

WORLD CLASS VIEW of bay & ocean. Fish from your pier or motor to the Gulf. Located at vertex of San Luis & Colds Pass. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

5 ACRES. 3-2-shop featuring 2 liv. areas plus dining & huge gameroom. Fruit trees & wildlife plenty. Just listed. \$114,900. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

182 Resort Property

HIDE-A-WAY on Gulf Lot: bulkheaded canal, water, sewer, owner finance. ABC Realty 297-9900.

TWO LOTS with septic, water & electricity on Carancahuay Dr. 35 pier. \$12000. 548-3501.

183 For Sale

CLUTE. Large wooded lot on Riley Road. Owner finance. \$1000 down. 297-4577.

JONES CREEK. 2 clean lots, gas & water available, large pecan trees, 10% down, owner will finance. Call 964-3167.

LOT 41A Buffalo Ct. In Buffalo Camp Farms. \$8000 or best offer. 504/275-3404.

184 Commercial Property For Sale

HWY. 288-E, Richwood. 6 1/2 acres with 3 br. frame house, ideal bus/res. \$65,500. ABC 297-9900.

HWY 288E, Richwood area. Commercial lot, 100x120. \$15,000. **PROPERTY SERVICES**, 297-3073.

KISS THE BOSS GOOD-BYE! First class barbecue business, equipment & real estate serving Brazoria County & surrounding areas. Catering & restaurant. \$180,000 buys all. Exclusively listed by BOB PELTIER & ASSOC., 7 days 24 hours, 849-1234.

185 Acreage For Sale

34 ACRES for sale. About 5 miles west of Four Forks. Call 409-233-0343 or 713-337-1859 after 6pm.

THE PROPERTY COMPANY 297-1234

FOLLETT BUILDING in Angleton, for lease. Near courthouse and close to Action in Angleton. Call: Tim O'Neil - 297-1234

PRIME RANCH LAND near Angleton. 210 acres, cleared & fenced with road frontage on 3 sides. \$1,200 per acre. Bruce Walters, 265-4701 or 297-4682. **CLYDE CONE CO.**

THE PROPERTY COMPANY 297-1234

70 ACRES - On C.R. 30. Owner will finance. Call: Tim O'Neil - 297-1234

186 Real Estate Wanted

CASH FOR HOUSES: city, brick, country, frame even fixups. Fast cash. ABC Realty 297-9900.

196 Mobile Home Lots For Sale

NO MONEY DOWN Limited time offer. Own your own lot in a country-type atmosphere, restricted subdivision near Alvin. Low monthly payments. Single & doublewide lots avail. Financing available. Call 713-331-3091.

197 Mobile Home Lots For Rent

1/2 ACRE private lot. \$100/mo includes water & septic. 9 mi. N. of Ang, near 521 & 288. 713-369-3113.

198 Mobile Homes For Sale

COLLEGE STATION, Vi- king, 3 bedroom, 2 bath, 14x76, CH&A, all appliances, setup on rental park with carport & covered deck. Graduating in December & need to sell. 798-7678.

DEALER REPO'S! Absolutely NO money out of pocket. Just assume payments. 7 to choose from. Call now 713-489-7410.

EL CAMPO MANUFACTURED HOUSING Beautiful, 16 wide, 3 bdms, 2 bath Fleetwood. Unbeatable price of \$21,995. Low down payment! 1-800-486-7805

FLEETWOOD 3 bedroom, 2 bath, 14x80, CH&A, 3/4 inch plywood floors, Lee Carpet with 3/4 inch pad, all appliances, storm windows. Setup on rental lot with double carport & storage & shed. \$9500. 265-4745.

FLEETWOOD. 2-bedroom, 14x56, vinyl siding, clean & nice, free delivery, only \$13,900! Only \$1000 down, only \$229 a month (84 mos, 12.25). **ROSENBERG FACTORY OUTLET.** Retailer 1-800-632-6181.

HOME OR LAND Country Living. 0 DOWN. No Turn Downs. 713-489-0085.

HOMES OR LAND \$0 DOWN Guaranteed Approval. No Turn Downs. 713-489-0085.

NEED A Mobile Home Loan? BAD CREDIT! I Don't Care! Call Now for new & used. 713-489-1574.

NEED TO SELL! Nice 3 bedroom mobile home in this area by May 1, 1996. No dealers please! 512-573-3923

NOW OPEN! Giant Oakwood Mobile Home Super Store in Victoria, Texas. 5+ acres of homes to choose from! Grand Opening! No applications refused! 1-800-573-9909

OLDER MOBILE HOME Furnished, on 2 lots, garage, 2 septic systems, close to Demi John Island & Bastrop Bayou, price negotiable. 713-585-6070.

0 DOWN Home And Land. Lake Lots. Wooded Lots. 713-489-0085.

20 REPO'S Like New. All Prices. NICE HOMES. 713-489-1574.

'96'S ARE HERE '95 Must Go! "Stackem Deep!" "Sell'em Cheap!" Over 40 Fleetwood homes to choose from. Bargains galore on single-wide & doublewide! Since 1980, El Campo Manufactured Housing. 1-800-486-7805

199 Legals or Public Notices

BID NOTICE

The City of Sweeny intends to sell a 1982 1/2 ton pickup.

The 1982 pickup is a V-6 engine, automatic, long wheel base, air and power steering. The truck needs some repairs.

This vehicle can be seen at the City Barn at 209 W. Second Street or contacting Tim Moss, Director of Public Service, at (409) 548-7660.

Bids will be received until 10:00 A.M., Monday, August 19, 1996. The bids will

199 Legals or Public Notices

be opened at that time and then presented to Council at the regular Council Meeting for their action, August 20, 1996 at 7:00 P.M. Bids should be sealed and clearly marked "Bids on 1982 Pickup" and submitted to:

City of Sweeny
ATTN: Tina Bernhausen
P.O. Box 248
Sweeny, Texas 77480

The City of Sweeny reserves the right to reject any and/or all bids, to waive any and all technicalities and to accept any bid or part thereof which in the opinion of the City Council, is most advantageous to the City.

CITATION BY PUBLICATION

THE STATE OF TEXAS

TO: Roy Steats, Rt. 1, Box 3700X, Fort Worth, Texas 76108, Defendant, in the hereinafter styled and numbered cause:

YOU ARE HEREBY COMMANDED to appear before the County Court at Law No. 3 and Probate Court of Brazoria County, Texas, to be held at the courthouse of said County in the city of Angleton, Brazoria County, Texas, at or before 10 o'clock A.M. on the first Monday after the expiration of 42 days from the date of issuance hereof, that is to say, at or before 10 o'clock A.M. on Monday the 16th day of September, 1996, and answer the petition of plaintiff in Cause No. 19,813B, styled:

The State of Texas, Plaintiff VS. Dain Jay Steats, et al, Defendant

Filed in said Court on the 12th day of October, 1993. The nature of said suit being substantially as follows, to wit: Bond forfeiture Cause No. 73,939B for failure to appear on June 18, 1993.

Plaintiff is represented by Keith Allen, Assistant District Atty, whose address is 111 E. Locust, Suite 408A, Angleton, Texas 77515.

ISSUED AND GIVEN UNDER MY HAND AND SEAL OF said court at office, this the 23rd day of July, 1996.

DOLLY BAILEY, County Clerk, Brazoria County, Texas 111 E. Locust, Suite 200 Angleton, TX 77515-4654

By J. Hudman, Deputy.

NOTICE

You have been sued. You may employ an attorney, if you or your attorney do not file a written answer with the clerk who issued this citation by 10:00 A.M. on the Monday next following the expiration of 42 days after you were served this citation and petition, a default judgment may be taken against you. (RULE 99c and Rule 114 Texas Rules of Civil Procedure.)

A true copy, I certify. E.J. King, Sheriff, Brazoria County, Texas

By Anne Longoria, Deputy

CITATION BY PUBLICATION

THE STATE OF TEXAS

TO: Tariq Khan, 3400 Woodchase #2201, Houston, Texas 77001, Defendant, in the hereinafter styled and numbered cause:

YOU ARE HEREBY COMMANDED to appear before the County Court at Law No. 3 and Probate Court of

199 Legals or Public Notices

Brazoria County, Texas; to be held at the courthouse of said County in the city of Angleton, Brazoria County, Texas, at or before 10 o'clock A.M. on the first Monday after the expiration of 42 days from the date of issuance hereof; that is to say, at or before 10 o'clock A.M. on Monday the 16th day of September, 1996, and answer the petition of plaintiff in Cause No. 20,244B, styled:

The State of Texas, Plaintiff
VS
Mohammad Khan, et al.,
Defendant

Filed in said Court on the 13th day of April, 1996. The nature of said suit being substantially as follows, to wit: Bond forfeiture Cause No. 74,998B for failure to appear on January 4, 1994.

Plaintiff is represented by Keith Allen, Assistant District Atty, whose address is 111 E. Locust, Suite 408A, Angleton, Texas 77515.

ISSUED AND GIVEN UNDER MY HAND AND SEAL OF said court at office, this the 23rd day of July, 1996.

DOLLY BAILEY,
County Clerk
Brazoria County, Texas
111 E. Locust, Suite 200
Angleton, TX 77515-4654

By J. Hudman, Deputy

NOTICE

You have been sued. You may employ an attorney. If you or your attorney do not file a written answer with the clerk who issued this citation by 10:00 A.M. on the Monday next following the expiration of 42 days after you were served this citation and petition, a default judgment may be taken against you. (RULE 98c and Rule 114 Texas Rules of Civil Procedure.)

A true copy, I certify.
E.J. King, Sheriff
Brazoria County, Texas

By Anne Longoria, Deputy

199 Legals or Public Notices**TO ALL INTERESTED PERSONS AND PARTIES:**

You are hereby notified that HERCULES MARINE SERVICES CORPORATION has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. 32768. This permit, if approved, will authorize construction of an air pollution control unit in Freeport, Brazoria County, Texas. The location of the existing facility is 906 Martin. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the TNRCC Houston Regional Office, Air Program at 8425 Polk Street, Suite H, Houston, Texas 77023-1423; telephone (713) 767-3500, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing Ms. Kate Hauer, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments

199 Legals or Public Notices

will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on 7/30/96 and 7/31/96.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter. If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief

199 Legals or Public Notices

description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

185 Acreage For Sale**185** Acreage For Sale**Real Estate Offering Sealed Bid**

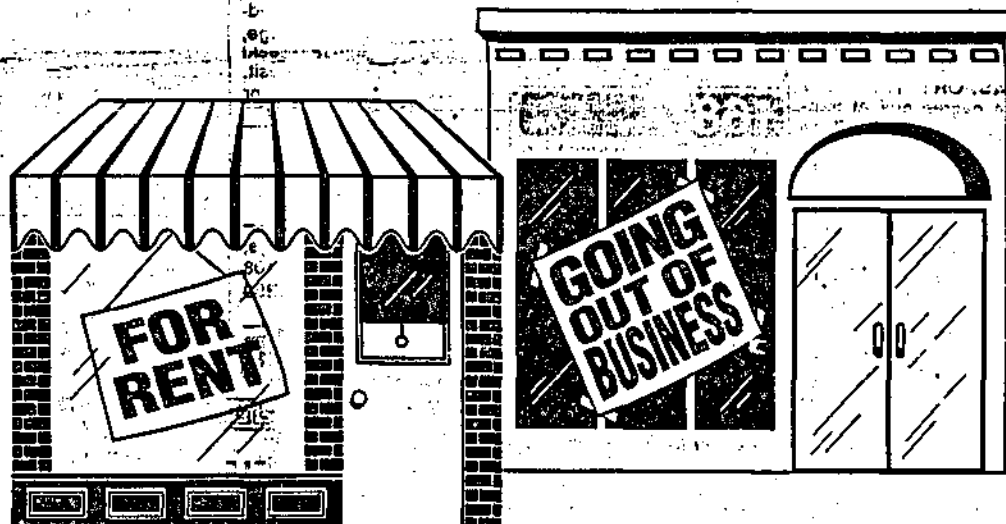
Sealed Bid Deadline: August 12, 1996. "Last Asking Price" below provided for information purposes only. CASH OFFERS ONLY! Other properties also available. Call or fax request for information.

DEVELOPED LAND/LOTS. Brazoria Co. Key Largo Land on Bluewater Hwy. 57 acres on Christmas Bay. 5 mi. so. of San Luis Pass. Ref. 3808. LAST ASKING PRICE \$110,000.

Commercial Real Estate Services, Inc.
(214) 443-3254 • Fax (214) 443-3226

Properties may be withdrawn at any time and prices subject to change without notice.

A Lot Of Business Who Don't Advertise Are Really On The Move.



If this isn't the direction you had in mind for your business, it's time to take a new direction. Call one of our account representatives now for complete information on how an effective advertising program in our publication can turn your business around.

The Brazosport Facts

265-7401 • 265-7411 • 849-7554

3 1-800-864-8340

199 Legals or Public Notices

NO. 21,497

ESTATE OF
MARTHA LOUISE
WALKER, DECEASEDIN THE COUNTY
COURT AT LAW
NUMBER TWO (2) OF
BRAZORIA COUNTY,
TEXASNOTICE TO
CREDITORS

Notice is hereby given that Letters Testamentary for the Estate of MARTHA LOUISE WALKER, Deceased, were issued on July 2, 1996, in Docket No. 21,497, pending in the County Court at Law No. Two (2) of Brazoria County, Texas, to ELBERT E. WALKER.

The residence of Independent Executor is in Brazoria County, Texas, and the post office address is:

Estate of Martha Louise Walker, Deceased
c/o Elbert E. Walker
127 Plantation Dr. #1005
Lake Jackson, TX 77566

All persons having claims against this Estate which is currently being administered are required to present them within the time and in the manner prescribed by law.

DATED the 31st day of July, 1996.

BROWN, PARKER &
LEAHY, L.L.P.

By: Robert C. Walker
State Bar No. 20724600
3600 Two Allen Center
1200 Smith Street
Houston, Texas 77002-4595
(713) 654-8111
(713) 654-1871 (Fax)
ATTORNEYS FOR
MARTHA LOUISE
WALKER, DECEASED

NOTICE OF
PUBLIC SALE

Brazosport Mini Storage, wishing to avail themselves of the provisions of Chapter 59 of the Texas Property Code (Chapter 57b Acts of the 68th Legislature, Regular Session, 1983), as recodified by the Texas Legislature and effective January 1, 1984 and thereafter, hereby gives Notice of Sale under said Act, to wit:

On August 21, 1996 at Brazosport Mini Storage, 807 Brazos Park Drive, Clute, Texas, at the hour of 10:00 A.M. of that day, Brazosport Mini Storage will conduct a Public Sale to the highest bidder, for cash, of the contents of:

Space A-30, Rented by Rick Elliot
Space A-46, Rented by Monica DeLeon

NOTICE TO BIDDERS

The Brazos River Harbor Navigation District (Owner) will accept sealed bids until 2:00 p.m., Thursday, August 15th, 1996 for the contract for "TRANSIT SHED 'A' TRUCK DOCK APRON" at Port Freeport, Freeport, Texas.

All interested parties are invited to address bids to:

A.J. Rebach, Jr.,
Port Director
Brazos River Harbor
Navigation District
P.O. Box 615
1001 Pine Street
Freeport, Texas
77542-0615

Copies of the Contract Documents, Specifications, and Drawings are on file at:

Navigation District Office
(Owner)
1001 Pine Street
Freeport, Texas 77541

Joy, Mercer & Associates
1531 N. Ave. I, Ste. H
Freeport, Texas 77541

Dodge Reports
3131 East Side, Suite 300
Houston Texas 77058

American General Contractors, Inc.
7007 Gulf Freeway
Houston, TX 77067

They may be examined without charge at the above locations. Bidders may obtain a complete set of Contract Documents and Technical Specifications from Joy, Mercer & Associates, Inc. at the above address upon request and payment of \$50.00 per set (refundable, if sets are returned within 5 days of bid opening, less mailing and/or handling charges). Partial

199 Legals or Public Notices

Price. The Bonds must be from a surety company duly authorized in the State of Texas, according to the latest list of companies holding certificates of authority from the State Board of Insurance, to act as surety.

For information, contact J. C. Joy, P.E., Joy, Mercer & Associates (409/233-1369), Fax: (409/233-1530).

The Owner reserves the right to reject any or all bids, or to accept any bid deemed advantageous.

BRAZOS RIVER HARBOR
NAVIGATION DISTRICT
Phyllis Seathoff
Managing Director

REQUEST FOR BIDS
ON TEXAS HIGHWAY
CONSTRUCTION

Sealed proposals for 1.041 miles of grading, structures, base, concrete pavement, illumination, signing and pavement marking on SH 288 at Oyster Creek Drive covered by STP 96(817)UM in Brazoria County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 13, 1996, and then publicly opened and read.

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award. Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Larry J. Heckathorn, Area Engineer, Angleton, Texas and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

Usual rights reserved.

REQUEST FOR BIDS
ON TEXAS HIGHWAY
CONSTRUCTION

Sealed proposals for 0.521 miles of construct road, walks and drainage at Sea Center Fish Hatchery covered by C 912-31-75 in Brazoria County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 14, 1996, and then publicly opened and read.

Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Larry J. Heckathorn, Area Engineer, Angleton, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award.

Usual rights reserved.

CLASSIFIED
CRAFTS
A Feature of This
Newspaper

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Check
and

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3-00

them within the time and in the manner prescribed by law.

DATED the 31st day of July, 1986.

BROWN, PARKER & LEAHY, L.L.P.

By: Robert C. Walker
State Bar No. 20724600
3600 Two Allen Center
1200 Smith Street
Houston, Texas 77002-4595
(713) 654-8111
(713) 654-1871 (Fax)
ATTORNEYS FOR
MARTHA LOUISE
WALKER, DECEASED

NOTICE OF PUBLIC SALE

Brazosport Mini Storage, wishing to avail themselves of the provisions of Chapter 69 of the Texas Property Code (Chapter 578 Acts of the 68th Legislature, Regular Session, 1983), as recodified by the Texas Legislature and effective January 1, 1984 and thereafter, hereby gives Notice of Sale under said Act, to wit:

On August 21, 1986 at Brazosport Mini Storage, 807 Brazos Park Drive, Clute, Texas, at the hour of 10:00 A.M. of that day, Brazosport Mini Storage will conduct a Public Sale to the highest bidder, for cash, of the contents of:

Space A-30, Rented by Rick Elliot
Space A-46, Rented by Monica DeLeon

NOTICE TO BIDDERS

The Brazos River Harbor Navigation District (Owner) will accept sealed bids until 2:00 p.m., Thursday, August 15th, 1986 for the contract for "TRANSIT SHED" at "TRUCK DOCK APRON" at Port Freeport, Freeport, Texas.

All interested parties are invited to address bids to:

A.J. Reibach, Jr.,
Port Director
Brazos River Harbor
Navigation District
P.O. Box 615
1001 Pine Street
Freeport, Texas
77542-0615

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1001 Pine Street
Freeport, Texas 77541

Joy, Mercer & Associates
1331 N. Ave. I, Ste. H
Freeport, Texas 77541

Dodge Reports
3131 East Side, Suite 300
Houston Texas 77098

American General Contractors, Inc.
7007 Gulf Freeway
Houston, TX 77037

They may be examined without charge at the above locations. Bidders may obtain a complete set of Contract Documents and Technical Specifications from Joy, Mercer & Associates, Inc. at the above address upon request and payment of \$50.00 per set (refundable, if sets are returned within 5 days of bid opening, less mailing and/or express charges). Partial sets may be reproduced at commercial reproduction rates.

A Pre-Bid Conference on this project will be held at 2:00 p.m., Tuesday, August 9th, 1986 in the Board Room of the Brazos River Harbor Navigation District Office, 1001 Pine Street, Freeport, Texas.

Each Bidder shall submit with his Bid Proposal a Bid Bond or other approved bid security in an amount of 5% of the greatest amount of his bid. The successful bidder must furnish both Performance and Payment Bonds in an amount of 100% of the total Contract

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award. Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Larry J. Heckathorn, Area Engineer, Angleton, Texas and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

Usual rights reserved.

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Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Larry J. Heckathorn, Area Engineer, Angleton, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

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CLASSIFIED CRAFTS A Feature of This Newspaper



CHOPPING BLOCK KITCHEN CENTER. A super work center! Use 2 x 4 lumber to build. Features removable cutting board and recessed mixing bowl, tilt-out trash bin. 22 x 36 inch surface. Plans include complete instructions, full-size patterns. #2948 \$8.95

SATISFACTION OR YOUR MONEY BACK

To order plans mail check or money order and project number and name, with your name, address and zip. Add \$2.95 for catalog (includes \$18 in discount coupons) to CIDA, please add tax.

CLASSIFIED CRAFTS
DEPT. C 77531
P.O. BOX 400
JENKS, OK 74037

...authorization for
y out-of-town EMS run has to
approved by Schmitz because
takes an ambulance out of ser-
vice for more than an hour.

"That's our biggest concern
out them closing down," said

town. We only go out of town if
we know we have people avail-
able," said Schmitz.

Norwood said Monday that
nothing at the hospital has affect-
ed current city budget projections
or proposals.

mile rate:

Most places in the city would
be under this 10-mile limit if
Columbia-Alvin hospital's emer-
gency room is the facility of
choice, but not if the ambulances
had to use another facility.

TO ALL INTERESTED PERSONS AND PARTIES

HERCULES MARINE SERVICES CORPORATION
has made application with the Texas Natural
Resource Conservation Commission for Air Quality
Permit No. 32768 to construct an Air Pollution
Control Unit in **Freeport, Brazoria County, Texas.**
The location of the existing facility is 906 Marlin.
Additional information concerning this application is
contained in the public notice section of this
newspaper. This notice is to be published on
7/30/96 and 7/31/96.

163 Free Pets**KITTENS**.....849-1958**POT BELLIED****PIG**.....849-8789**PUPPIES**.....233-8017**PUPPIES**.....265-9587**PUPPIES**.....798-9560**167 Mobile Homes For Rent****ANGLETON**, 3-2, appliances, ch&a, washer/dryer connections. No petal \$450/mo, \$200 dep. 848-0749.**ANGLETON** Cute & Clean, decorated western style, small 2 BR, fireplace, appliances, \$375/mo., \$175 dep. References, no pets. 984-3772, 849-3903.**ANGLETON** Immaculate 2-1, appliances, CHA, \$425/mo., \$200 dep. References, no pets, 984-3772, 849-3903.**ANGLETON** Small 2 BR, unfurnished, deposit & references required, 849-3321 or 849-7355.**OYSTER CREEK**, Nice FURNISHED 2 bedroom, CH&A, washer & dryer, \$380/mo. + dep. NO PETS. Strinsky's 233-8391.**RICHWOOD AREA** - 2 BR, 1 BA. Access to pond, storage building, fenced. Very nice! \$375 mo. + \$350 dep. 409-849-4742.**168 Furnished Or Unfurnished Apartments****ANGLETON** Bastrop Bayou Skiers & fishermen's paradise, 1 BR, 3 years old, \$300 + deposit, 848-1100.**169 Unfurnished Apartments****ANGLETON**, 1248 Chevy Chase, 2-1-1 duplex, \$395/mo + deposit, 849-3807.**ANGLETON**, Large 1 bedroom apartment, small complex. Leave message, 849-0838 or 849-5173.**ANGLETON**, 2-1/2 apartments & townhouses. From \$400/month. \$99 first month rent. 848-2750.**WILDWOOD MANOR** New Washers & Dryers, 849-4314.**CLEAN**, quiet & quality. Swimming pool! Ashley Forest Apts, 1000 W. Ashley Wilson, Sweeny, 548-5255.**L.J.**, Large 1 bedroom condo for lease. Ceiling fan, washer/dryer, fireplace, balcony overlooks Garland Park. \$420/mo. Call Kell at American Locators, 297-5555 or 713-621-8955 weekends/evenings.**WILDWOOD MANOR** Professional Fitness Center, 849-4314.**WILDWOOD MANOR** Two Tennis Courts, 849-4314.**WILDWOOD MANOR** \$99 first month, 849-4314.**NOW LEASING** at April Park Apts. 1, 2 and 3 bedrooms, starting at \$265. 265-4797.**NOW LEASING** Must hurry going fast! Can you believe we're throwing away 2 weeks free rent out the door. Hurry, Hurry, going fast! Call & ask for Kim or Diane, 265-8799.**1-1 CONDO**, Washer, dryer & fireplace. Some units restricted. Riverbend Condominiums, 297-8511.**170 Furnished Apartments****BRAZORIA** - Furnished 1 bedroom w/color TV, A/C, free cable & HBO. All this while paid, as low \$90 per week. No pets. \$100 deposit. Brazoria North Shopping Center, 798-9599.**CABINS** - Surfside Beach TX. A/C, refrigerator, TV, security lights & parking. \$80/week, bills paid. Bob, 233-0814.**FRPT**, 1 bedroom house or 1 efficiency apt, utilities paid, no pets. Weekly or monthly. w/dep. 233-3242 or 239-8199.**FURNISHED** large efficiency apartment. Phone, TV, cable, a/c & private parking provided. \$125/wk, \$100 dep. 233-3866, weekdays between 8-8pm or anytime weekends.**SEAVIEW MOTEL**, Surfside. Rooms, trailers, kitchenette. TVs, cable. Bills paid. 233-8702.**CLASSIFIED** CALL US TODAY!**169 Unfurnished Apartments****170 Furnished Apartments****SINGLE** - \$100/WEEK Cold air, refrigerator, cooking ok, no pets, bills paid, qualified person, no deposit. Bob, 233-0814.**WEEKLY** \$85 up, Monthly \$325 up. Phone, A/C, cable, washer/dryer, hot plate at addl charge. Economy Inn Motel, Ang, 849-5781**171 Unfurnished Houses****ANGLETON**, 3 bedroom, \$525/month, \$400 deposit. 815 N. Rock Island. No petal 822-8363.**CLUTE** Brick, 3-1/2-1, CH&A, fenced yard w/ satellite dish & hook-up. \$750 mo, \$400 dep. 265-3164.**FLAGRIDGE ESTATES** 51 Chickory Ct., 4 BR, approx 2700 sq. ft. Call 297-0291**FREEPORT** 3-1 Duplex, range, rotig, W/D hookups, 1203 W. 9th St \$325/mo., \$325 dep., 297-4938.**FOR LEASE** Clean, large 1 bedroom, new carpet, mini blinds. Demi John, available 9/1/98. \$400 mo. \$350 dep. 233-0627.**FRPT** 1003 W. 10th 2 BR, den, washer/dryer hookups, screened porch, garage, workshop, AC. \$400 - \$300 dep. No pets. 798-5951.**LAKE JACKSON** 3 bedroom, 1 bath, 1 car garage, landscaped, fantastic deck! \$600/month, \$600/deposit. 1 year lease. 297-8305 or 235-8354. Landlord/Agent.**L.J.** 2-1-1 In nice neighborhood. \$450/month plus deposit. Call 798-7889.**L.J.** 3-1 Duplex, range, rotig, W/D hookups, 108 Grapevine, \$350/mo., \$350 dep., 297-4938.**L.J.** 4-2/2-2, \$1300 Call Kell at American Locators, 297-7700. Deposit required on all homes.**NICE NEIGHBORHOOD**, 3-2; living, dining & family rooms; fenced yard. 124 E. Tamarind, L.J. \$800/mo. 910-768-1487.**4-2/2-2**, two-story, formal dining room, very nice, in L.J., \$1200. Call The Prudential Shaver Real Estate, 297-5077.**179 Business Rentals****BUILD TO SUIT** on our property or yours. Professional, retail or commercial space. Contact - Beaver Apin, 409-265-6767 ext 5.**GREAT LOCATION** Hwy 332 In Clute next to Atlas Transmission. Will build to suit. Call 265-6767 ext. 5**LAKE JACKSON** down town corner. Office or retail. Vacant. ABC Realty 297-9900.**L.J.**, 110 Heather Lane. office space up to 1600 s.f. Storage or warehouse also available. 297-1970.**NEXT TO BUC-EES** Beach Store, 3800 sq. ft. \$1500 per month. Call Don at 265-6767 extension 4.**OFFICE SPACE** 500-6500 sq. ft. Oak Park Center, Clute. Office Warehouse, 800-4800 sq. ft. Freeport Business Park, Laitgo Land, 233-6884. Nights, 233-1745.**THE PROPERTY COMPANY 297-1234****1,600 SQ. FT. ON HWY. 332** - For lease! Close to Oyster Creek Division of Dow. Office Warehouse. Lease with option to purchase. Call Tim O'Neil, 297-1234 for more info.**180 Business Opportunities****CAPPUCCINO MACHINE** 3 flavors, commercial quality. Only 4 left, \$495 each. Call Dawn, 265-0866.**181 Houses For Sale****189 DUTCH LAKE CRT** Oyster Creek 2 story, 3-2, \$45,000 or best offer. 233-5571.**ABC Govt bids due 7-30 (Tues) Noon:** 311 Travis, W.C. 2-1-1 & add'l 299,900. 297-9900.**ABC NEW Govt Listing:** 537 Acker, Clute, large 4-2-2, \$55,200 or highest bid! 297-9900.**ABSOLUTELY LOW OR NO** move in FHAVA. L.J. 3-1-1, living, den, ch&a, large fenced yard. Mid \$50s. 612-477-4287 or 297-4414.**169 Unfurnished Apartments****181 Houses For Sale****ABOUT GOVT HOMES** - good financing offered on 311 Travis, W. Col. 2-1-1. \$29,900 and 537 Acker, Clute. 4-2-2, \$55,200. By bid. PROPERTY SERVICES, 297-3073.**ACCEPTING BIDS** through July 31st. 3-2-2 plus study. 203 Any Way. Preview 7/28 2-4pm. Minimum bid \$89,500. Come by & pick up a flyer & bid sheet. 297-4049.**ALDOUS REAL ESTATE** 202 This Way, L.J. 297-1226**Serving The Brazosport Area** With Homes!**ALL REAL ESTATE** advertised in this newspaper is subject to the Federal Fair Housing Act of 1968 which makes it illegal to advertise "any preference, limitation or discrimination based on race, color, religion or national origin, or an intention to make any such preference, limitation or discrimination." This newspaper will not knowingly accept any advertising for real estate which is in violation of the law. Our readers are hereby informed that all dwellings advertised in this newspaper are available on an equal opportunity basis.**ANGLETON** - Modular home! 3 bedroom, 2 bath. Just remodeled, large lot. \$37,000. Owner will finance! Call Tim O'Neil, 297-1234.**COLDWELL BANKER The Property Company 299-1166****ANGLETON** Beautiful 3-2-2, 2 years old, near school, lots of extras. By owner, \$86,700. For appointment call 849-1775.**ANGLETON** beautiful 3-1/2-1 at end of quiet cul-de-sac, great neighborhood. \$54,500. Potential lease purchase w/ \$2500 down. 297-9896.**BENCHMARK BUILDERS****Custom Homes For Sale** In Lake Jackson. Call for free home tour. 265-6633**BRAZORIA AREA:** 3 br, Hollywood bath, brk, CA&H, large country lot, Mid-\$60's. Will take house or MH for down. ABC 297-9900**CUSTOM BUILT HOME** on your lots or ours. Lots available in Flagridge. Thermal Tech Homes, Inc. 297-9499**Evenings, 297-9740.****\$49,900 AS IS!** Remodel you own 3BR, 1BA home on more than half an acre. All furniture stays. Call NOW for appt. (57A)**WILL CLARK PROPERTIES 849-2000 or 265-2000****FHA ASSUMABLE** 3-2 custom home. New above ground pool. Custom wainscoting, cabinets, new paint, carpet, central air unit. \$104,500. 314 Rainforest Ln. L.J. Open house Sat. & Sun. 297-8512.**GREAT HOME!** 3 bedroom, 2 bath on 2 acre lot in Brazoria. Large oak & pecan trees. 24' x 26' shop for motor home. Call Bobby Brown for more information.**COLDWELL BANKER The Property Company 299-1166****GREAT TERMS** for first time buyer (or haven't owned home in 3 yrs). Come by & talk with us about buying a home now. PROPERTY SERVICES, 297-3073.**JONES CREEK**, Brick 3-2-2, 1800 sq. ft. Built-ins, fireplace, dining room, on 1/2 acre. \$82,900. 233-4769.**JONES CREEK**, 118 Nelson. By owner! Updated 3-2-2, CH&A, dining room, utility room, fireplace, screen porch, extras. \$71,500. 239-2977.**LIFETIME HOME** in a beautiful setting. Gracious living will be yours in this 5BR, 3BA, 2 half baths home w/ formal living & dining rooms plus game room. Loaded w/ amenities. Magazine picture home in Timbercreek. L.J. PROPERTY SERVICES, 297-3073.**169 Unfurnished Apartments****181 Houses For Sale****LOCATED ON** beautiful tree shaded lot. Owner is making repairs to 3BR, 2BA brk, Richwood. Extra room could be study/4th BR. \$83,900. PROPERTY SERVICES, 297-3073.**LOW MOVE IN COST** for first time buyers or veterans. 2BR, 1 1/2 BA brk home, Freeport. Range, ch&a. \$29,900. PROPERTY SERVICES, 297-3073.**NEAR ELEMENTARY SCHOOL**, Fenced shaded back yard, freshly painted inside. 3BR home w/ alum. siding. Freeport. \$20's. PROPERTY SERVICES, 297-3073.**NEAT & CLEAN**, Located on 2 lots this comfortable home has had tender love & care & comes with children's play house, storage building & beautiful pear tree. Affordably priced at \$40,900. Freeport. PROPERTY SERVICES, 297-3073.**NEWLY REMODELED** 4 bedroom, 3 bath home in Yaupon area! New ac/heating, new kitchen appliances, screened/heated pool/jacuzzi. Call Bobby Brown for more details.**COLDWELL BANKER The Property Company 299-1166****OPPORTUNITY** Knockout! 3-1 & 2-1, 1134 1200 W 10th. Best offer before 7/30. 713-952-2343 & evenings 713-980-8024.**PRICED RIGHT** In Angleton. Non-qualifying assumption in the \$50's. 3 BR, 2 B & Call Nanette 233-7828.**RICHWOOD**, By owner! Brick 3-2-2, inside utility, landscaped, low traffic area, near Polk Elem. \$69,000. 318 Quail Run. By appointment only, 265-3275.**SARGENT**, Owner financing. 3-2, new carpet & vinyl, ceiling fans, a/c, fenced, community pool, pier, boat ramp & security gates. 713-335-8648.**182 Resort Property****TWO LOTS** with septic, water & electricity on Carancahuay Dr. 35' pier. \$12000, 548-3591.**183 Lots For Sale****CLUTE**, Large wooded lot on Riley Road. Owner finance. \$1000 down. 297-4577.**JONES CREEK**, 2 clean lots, gas & water available, large pecan trees, 10% down, owner will finance. Call 964-3167.**LOT 41A Buffalo Ct.** In Buffalo Camp Farms, \$8000 or best offer. 504/275-3404.**RESIDENTIAL LOT** - 75x120, ready to build on, Angleton. \$3500. PROPERTY SERVICES, 297-3073.**184 Commercial Property For Sale****COMMERCIAL LOCATION**, 4 lots, Avenue A, Freeport, near Velasco Blvd. PROPERTY SERVICES, 297-3073.**185 Acreage For Sale****34 ACRES** for sale. About 5 miles west of Four Forks. Call 409-233-0343 or 713-337-1859 after 5pm.**ABC REALTY** 297-9900 J.C. 1 to 14 ac; W.C. 5 ac; 11 ac Sweeny Lots on Bernard & Brazos Riv. Own Fin**THE PROPERTY COMPANY 297-1234****COLLETT BUILDING** in Angleton, for lease. Near courthouse and close to Airport in Angleton. Call: Tim O'Neil - 297-1234**THE PROPERTY COMPANY 297-1234****20 ACRES** - On C.R. 30. Owner will finance. Call: Tim O'Neil - 297-1234**186 Real Estate Wanted****WE BUY HOUSES** frame or brick, or trade your house for larger country brk. ABC 297-9900.**196 Mobile Home Lots For Sale****NO MONEY DOWN** - Limited time offer. Own your own lot in a country-type atmosphere, restricted subdivision near Alvin. Low monthly payments. Single & doublewide lots avail. Financing avail.**181 Houses For Sale****LOCATED ON** beautiful tree shaded lot. Owner is making repairs to 3BR, 2BA brk, Richwood. Extra room could be study/4th BR. \$83,900. PROPERTY SERVICES, 297-3073.**LOW MOVE IN COST** for first time buyers or veterans. 2BR, 1 1/2 BA brk home, Freeport. Range, ch&a. \$29,900. PROPERTY SERVICES, 297-3073.**NEAR ELEMENTARY SCHOOL**, Fenced shaded back yard, freshly painted inside. 3BR home w/ alum. siding. Freeport. \$20's. PROPERTY SERVICES, 297-3073.**NEAT & CLEAN**, Located on 2 lots this comfortable home has had tender love & care & comes with children's play house, storage building & beautiful pear tree. Affordably priced at \$40,900. Freeport. PROPERTY SERVICES, 297-3073.**NEWLY REMODELED** 4 bedroom, 3 bath home in Yaupon area! New ac/heating, new kitchen appliances, screened/heated pool/jacuzzi. Call Bobby Brown for more details.**COLDWELL BANKER The Property Company 299-1166****OPPORTUNITY** Knockout! 3-1 & 2-1, 1134 1200 W 10th. 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NEWLY REMODELED 4 bedroom, 3 bath home in Yaupon area. New a/c heat units, new kitchen appliances, screened/heated pool/jacuzzi. Call Bobby Brown for more details.

COLDWELL BANKER
The Property Company
299-1166

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196 Mobile Home Lots For Sale

NO MONEY DOWN - Limited time offer. Own your own lot in a country-type atmosphere.

198 Mobile Homes For Sale

HOME OR LAND Country Living. 0 DOWN No Turn Downs. 713-489-0085.

HOMES OR LAND \$0 DOWN

Guaranteed Approval. No Turn Downs. 713-489-0085.

NEED A Mobile Home Loan? BAD CREDIT? I Don't Care! Call Now for new & used. 713-489-1574.

NEED TO SELL! Nice 3 bedroom mobile home in this area by May 1, 1996. No dealers please! 512-673-3923

NOW OPEN! Giant Oakwood Mobile Home Super Store in Victoria, Texas. 5+ acres of homes to choose from! Grand Opening! No applications refused! 1-800-573-9909

OLDER MOBILE HOME Furnished, on 2 lots, garage, 2 septic systems, close to Demil John Island & Bastrop Bayou, price negotiable. 713-585-6070.

0 DOWN Home And Land. Lake Lots. Wooded Lots. 713-489-0085.

20 REPO'S Like New, All Prices. NICE HOMES 713-489-1574.

199 Legals or Public Notices**TO ALL INTERESTED PERSONS AND PARTIES:**

You are hereby notified that HERCULES MARINE SERVICES CORPORATION has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. 32768. This permit, if approved, will authorize construction of an air pollution control unit in Freeport, Brazoria County, Texas. The location of the existing facility is 906 Marlin. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing Ms. Kate Hauer, TNRCC Office of Air Quality, New Source Review Division (MC-182), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on 7/30/96 and 7/31/96.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held.

199 Legals or Public Notices

Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

REQUEST FOR BIDS ON TEXAS HIGHWAY CONSTRUCTION

Sealed proposals for 7.850 miles of landscape development on SH 242 from FM 1488 to San Jacinto River covered by CL 3538-1-15 in Montgomery County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 14, 1996, and then publicly opened and read.

Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Charles Gaskin, Jr., Area Engineer, Conroe, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin in having full opportunity to submit bids in response to this invitation, and in consideration for an award.

Usual rights reserved.

REQUEST FOR BIDS ON TEXAS HIGHWAY CONSTRUCTION

Sealed proposals for 1.489 miles of construct and repair drainage structure on League Line Road covered by ER 95(186) in Montgomery County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 13, 1996, and then publicly opened and read.

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award. Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Charles Gaskin, Jr., Area Engineer, Conroe, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

Usual rights reserved.

REQUEST FOR BIDS ON TEXAS HIGHWAY CONSTRUCTION

Sealed proposals for 0.132 miles of replace structure and rehab scarified approach on Foster Dr. at Stewart Creek in Conroe covered by ER 95(183) in Montgomery County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 14, 1996, and then publicly opened and read.

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all

PRICED RIGHT in Angleton. Non-qualifying assumption in the \$50's. 3 BR, 2 B & Call Nanelle 233-7828.

RICHWOOD. By owner. Brick 3-2-2. Inside utility, landscaped, low traffic area, near Polk Elem. \$69,000. 318 Quail Run. By appointment only. 285-3275.

SARGENT. Owner financing. 3-2, new carpet & vinyl, ceiling fans, a/c, fenced, community pool, pier, boat ramp & security gates. 713-335-8648.

182 Resort Property

TWO LOTS with septic, water & electricity on Carancahuay Dr. 35' pier. \$12000. 548-3591.

183 Lots For Sale

CLUTE. Large wooded lot on Riley Road. Owner finance. \$1000 down. 297-4577.

JONES CREEK. 2 clean lots, gas & water available, large pecan trees. 10% down, owner will finance. Call 964-3167.

LOT 41A Buffalo Ct. In Buffalo Camp Farms, 713-8000 or best offer. 504/275-3404.

RESIDENTIAL LOT. 75x120, ready to build on, Angleton. \$3500. PROPERTY SERVICES. 297-3073.

184 Commercial Property For Sale

COMMERCIAL LOCATION. 4 lots, Avenue A, Freeport, near Velasco Blvd. PROPERTY SERVICES. 297-3073.

185 Acreage For Sale

34 ACRES for sale. About 2 1/2 miles west of Four Forks. Call 409-233-0343 or 713-337-1859 after 5pm.

ABC REALTY 297-9900 J.C. 1 to 14 ac; W.C. 5 ac; 1 ac Sweeney Lots on Bernard & Brazos Rvr. Own Fin

THE PROPERTY COMPANY 297-1234

FOLLETT BUILDING in Angleton, for lease. Near courthouse and close to Ac-son in Angleton. Call: Tim O'Neil - 297-1234

THE PROPERTY COMPANY 297-1234

20 ACRES - On C.R. 30. Owner will finance. Call: Tim O'Neil - 297-1234

186 Real Estate Wanted

WE BUY HOUSES frame or brick, or trade your house for larger country brick. ABC 297-9900

196 Mobile Home Lots For Sale

NO MONEY DOWN - Limited time offer. Own your own lot in a country-type atmosphere, restricted subdivision near Alvin. Low monthly payments. Single & doublewide lots avail. Financing available. Call 713-331-3091.

198 Mobile Homes For Sale

ABC REALTY 297-9900 2 bedrooms and large lots near Brazoria & Richwood. Owner finance.

DEALER REPO'S!

Absolutely NO money out of pocket. Just assume payments. 7 to 6 choose from. Call now 713-489-7410.

FLEETWOOD 3 bedroom, 2 bath, 14x80, CH&A, 3/4 inch plywood floors, Lee Carpet with 3/4 inch pad, all appliances, storm windows. Setup on rental lot with double carport & storage shed. \$9500. 265-4745.

Something to sell? Call Us Classified

PERSONS AND PARTIES:

You are hereby notified that HERCULES MARINE SERVICES CORPORATION has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. 32768. This permit, if approved, will authorize construction of an air pollution control unit in Freeport, Brazoria County, Texas. The location of the existing facility is 906 Marlin. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing Mr. Kate Hauer, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on 7/30/96 and 7/31/96.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter.

If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief

Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin in having full opportunity to submit bids in response to this invitation, and in consideration for an award.

Usual rights reserved.

REQUEST FOR BIDS ON TEXAS HIGHWAY CONSTRUCTION

Sealed proposals for 1.489 miles of construct and repair drainage structure on League Line Road covered by ER 95(186) in Montgomery County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 13, 1996, and then publicly opened and read.

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award. Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Charles Gaskin, Jr., Area Engineer, Conroe, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

Usual rights reserved.

REQUEST FOR BIDS ON TEXAS HIGHWAY CONSTRUCTION

Sealed proposals for 0.132 miles of replace structure and rehab scarified approach on Foster Dr. at Stewart Creek in Conroe covered by ER 95(183) in Montgomery County, will be received at the Texas Department of Transportation, Austin, Texas, until 1:00 P.M., August 14, 1996, and then publicly opened and read.

This contract is subject to all appropriate Federal laws, including Title VI of the Civil Rights Act of 1964. The Texas Department of Transportation hereby notifies all bidders that it will insure that bidders will not be discriminated against on the ground of race, color, sex or national origin, in having full opportunity to submit bids in response to this invitation, and in consideration for an award. Plans and specifications, including minimum wage rates as provided by Law, are available for inspection at the office of Charles Gaskin, Jr., Area Engineer, Conroe, Texas, and at the Texas Department of Transportation, Austin, Texas. Bidding proposals are to be requested from the Construction and Maintenance Division, 200 East Riverside Drive, Austin, Texas 78704-1205. Plans are available through commercial printers in Austin, Texas, at the expense of the bidder.

Usual rights reserved.

Our...
ochial Schools (TAPPS)
c League (TCAL).

Barcot; (top row) Lucy Saccomanno, Julie Salinas and
Sarah Salinas.

TO ALL INTERESTED PERSONS AND PARTIES

HERCULES MARINE SERVICES CORPORATION
has made application with the Texas Natural
Resource Conservation Commission for Air Quality
Permit No. 32768 to construct an Air Pollution
Control Unit in **Freeport, Brazoria County, Texas.**
The location of the existing facility is 906 Marlin.
Additional information concerning this application is
contained in the public notice section of this
newspaper. This notice is to be published on
7/30/96 and 7/31/96.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

181 Houses For Sale

FRPT, 3-2-2 det. in front of park. Seller will pay \$1,000 of buyers closing cost, totally remodeled. Call Manal at 299-3052, ALDOUS REAL ESTATE, 297-1228.

GREAT LOCATION! \$58,900. 321 Oak Dr. 3-1-1, ca/h (2 years old), hardwood floors, home warranty. 235-6413. The Prudential Shaver Real Estate.

GREAT TERMS for first time buyer (or haven't owned home in 3 yrs). Come by & talk with us about buying a home now. **PROPERTY SERVICES, 297-3073.**

IN A HURRY! Get in quick! 4 BR's near Northside elem. Payments less than rent. Hi \$30's. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

JCI: 6 1/2 acres, fenced yard and pasture, 3-2-2 brick, CA&H, very private! ABC Realty 297-9900.

JONES CREEK. Brick 3-2-2, 1800 sq. ft. Built-ins, fireplace, dining room, on 1/2 acre. \$82,900. 233-4789.

JONES CREEK. 118 Nelson. By owner! Updated 3-2-2, CH&A, dining room, utility room, fireplace, screen porch, extras. \$71,500. 239-2977.

LAKE JACKSON 101 Dahlia. Beautiful Victorian style home. 9' ceilings downstairs, 3-2-1-2, formal dining room, den, breakfast area, kitchen, laundry, screened deck, vinyl siding, beautifully landscaped, fenced backyard, 8x10 utility barn. \$124,900. 297-0854 nights, 238-3529 days.

LAKE JACKSON. 4-2-1-2 two story on 3.3 wooded acres. 2700 sq. ft., large gameroom, large fireplace, \$135,000. 328 Rabbit Trail. Appt only 297-0990.

LANDSCAPED LOT adds nice touch to this 3 BR, 2 BA brick home in Richwood. \$60's. Owner motivated. **GREG FLANKEN & ASSOC 233-7828**

LIFETIME HOME in a beautiful setting. Gracious living will be yours in this SBR 3BA, 2 half baths home w/ formal living & dining rooms plus gameroom. Loaded w/ amenities. Magazine picture home in Timbercreek, L.J. **PROPERTY SERVICES, 297-3073.**

L.J. 215 PALM LN 3-1-1, CH&A, Beutal School Dist. \$48,900. 1-800-470-7908.

L.J. 3-1-1, CH/A, fenced, nyl. \$47,900, Owner/Broker. 297-8344.

L.J. 3-2-2 Split bedroom plan. New carpet, paint, disposal, and central heat. \$66,000. Call Pat at 265-2324.

MID-COASTAL PROPERTIES 297-2842

L.J. BY OWNER MUST SELL! Very nice 4-2-2. New paint & flooring, nice neighborhood, low \$70's. Possible owner finance with large down. 265-0683.

LOCATED ON CUL-DE-SAC. 3BR brk home w/ family rm or 4th BR, lg fenced wooded lot, L.J. **PROPERTY SERVICES, 297-3073.**

LOOKS LIKE BRENHAM, just north of Angleton. 40 acres, 2 stocked lakes. Tin roof, wrap porches, lg bedrooms, block paneling, fantastic kitchen & much more. All on very high ground just north of town. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

181 Houses For Sale

MUST SEE this Jones Creek home. 4 BR, 2 BA brick with oversized two car garage, shaded lot. \$70's. **GREG FLANKEN & ASSOC 233-7828**

NATURAL LAKE. Huge pecan & oaks, several acres. Well, septic & electric. \$22,500. Ask for Bob! Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

NEAT 2 story 4 br brick with 2 car and work shop area. See this govt repo for more info. Mid \$50's. ABC Realty 297-9900.

NICE! Like new 2-1-1 in Angleton. Already has VA appraisal. Call Tim O'Neil, 297-1234.

OLDWELL BANKERS The Property Company 299-1166

OPEN SUNDAY 2-4PM.

Bronte Bend. Dramatically reduced. 3-2-2 plus 1-1-1 on 2 oak shaded lots, across from new Dow CU. Cleanest house in town! Drive by & see! Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

P. PELTIER BUILDERS

Custom Homes 409-849-4418 409-299-6651

PRICE REDUCED! 3 or 4 BR, 2 BA in Jones Creek. Frame home on wooded 1 acre lot. \$20's.

GREG FLANKEN & ASSOC 233-7828

PRICED RIGHT in Angleton. Non-qualifying assumption in the \$50's. 3 BR, 2 BA, 2 car garage. Fenced yard. CH/A. **GREG FLANKEN & ASSOC, 233-7828.**

REDUCED 135 acres with 3 bedroom brick, barn, outbuildings, crossfenced, stocked pond. Will sell all for \$264,500 or 68 acres with house for \$155,000. Call Theresa O'Leary 235-6348 or ALDOUS REAL ESTATE, 235-6348 or 297-1228.

RICHWOOD, 3-2-2. Inside utility, updated carpet, 2 living areas -- formal-dining, near school & pool. Priced -- the \$50's.

RICHWOOD. By owner! Brick 3-2-2, inside utility, landscaped, low traffic area, near Polk Elem. \$69,000. 318 Oval Run. By appointment only, 265-3275.

SAN BERNARD RIVER. Outstanding investment on most desirable area. 50x8-3/4-1/2 featuring 4 patio/deck areas, boat lift & boat slips, on 2 bulldozed lots. Bank says "Sell Now!" Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

SARGENT. Owner financing. 3-2, new carpet & vinyl, ceiling fans, w/c, fenced, community pool, pier, boat ramp & security gates. 713-335-8648.

START HERE. On 1 acre. Sparkling 3-2-1 featuring open living concept, liv. den & dining rooms. Just listed. \$40's. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

SUPPORT THE BRAZORIA COUNTY BOARD OF REALTORS

PUT THE FACTS CLASSIFIED TO WORK FOR YOU

181 Houses For Sale

SWEENEY! Owner financed small frame, firstupper, some major repairs just completed, corner \$75,000. ABC Realty 297-9900

WORLD CLASS VIEW of bay & ocean. Flies from your pier or motor to the Gulf. Located at vertex of San Luis & Colds Pass. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

8 ACRES. 3-2-shop featuring 2 liv. areas plus dining & huge gamerooms. Fruit trees & wildlife aptery. Just listed. \$114,900. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

182 Resort Property

HIDE-A-WAY on Gulf Lot: bulkheaded canal, water, sewer, owner finance. ABC Realty 297-9900.

TWO LOTS with septic, water & electricity on Carancahuay Dr. 35' pier. \$120,000. 548-3591.

183 Lots For Sale

CLUTL. Large wooded lot on Riley Road. Owner finance. \$1000 down. 297-4577.

JONES CREEK. 2 clean lots, gas & water available, large pecan trees, 10% down, owner will finance. Call 964-3167.

LOT 41A Buffalo Ct. in Buffalo Camp Farms, \$8000 or best offer. 504/275-3404.

184 Commercial Property For Sale

HWY. 288-B, Richwood. 6 1/2 acres with 3 br. frame house, ideal bus/res. \$85,500. ABC 297-9900.

HWY 288B, Richwood area. Commercial lot, 100x 120. \$15,000. **PROPERTY SERVICES, 297-3073.**

KISS THE BOSS GOOD-BYE! First class barbecue business, equipment & real estate serving Brazoria County & surrounding areas. Catering & restaurant. \$180,000 buys all. Exclusively listed by BOB PELTIER & ASSOC, 7 days 24 hours, 849-1234.

185 Acreage For Sale

34 ACRES for sale. About 5 miles west of Four Forks. Call 409-233-0343 or 713-337-1859 after 6pm.

THE PROPERTY COMPANY 297-1234

FOLLETT BUILDING in Courthouse and close to station in Angleton. Call: Tim O'Neil - 297-1234

PRIME RANCH LAND near Angleton. 210 acres, cleared & fenced with road frontage on 3 sides. \$1,200 per acre. Bruce Walters, 265-4701 or 297-4682. **CLYDE CONE CO.**

THE PROPERTY COMPANY 297-1234

70 ACRES - On C.R. 30. Owner will finance. Call: Tim O'Neil - 297-1234

186 Real Estate Wanted

CASH FOR HOMES: city, brick, country, frame even fixups. Fast cash. ABC Realty 297-9900.

196 Mobile Home Lots For Sale

NO MONEY DOWN Limited time offer. Own your own lot in a country-type atmosphere, restricted subdivision near Alvin. Low monthly payments. Single & doublewide lots avail. Financing available. Call 713-331-3091.

197 Mobile Home Lots For Rent

1/2 ACRE private lot. \$100/mo includes water & septic. 9 mi. N. of Ang, near 521 & 288. 713-369-3113.

198 Mobile Homes For Sale

COLLEGE STATION, Vi- king, 3 bedroom, 2 bath, 14x76, CH&A, all appliances, setup on rental park with carport & covered deck. Graduating in December & need to sell. 798-7878.

DEALER REPO'S! Absolutely NO money out of pocket. Just assume payments. 7 to choose from. Call now 713-489-7410.

EL CAMPO MANUFACTURED HOUSING Beautiful, 16 wide, 3 bdms, 2 bath Fleetwood. Unbeatable price of \$21,995. Low down payment! 1-800-486-7805

FLEETWOOD 3 bedroom, 2 bath, 14x80, CH&A, 3/4 inch plywood floors, Lee Carpet with 3/4 inch pad, all appliances, storm windows. Setup on rental lot with double carport & storage & shed. \$9500. 265-4745.

FLEETWOOD- 2-bedroom, 14x56, vinyl siding, clean & nice, free delivery, only \$13,900! Only \$1000 down, only \$229 a month (84 mos. 12.25). **ROSENBERG FACTORY OUTLET.** Retailer 1-800-932-8181.

HOME OR LAND Country Living. 0 DOWN No Turn Downs 713-489-0085.

HOMES OR LAND \$0 DOWN Guaranteed Approval. No Turn Downs. 713-489-0085.

NEED A Mobile Home Loan? BAD CREDIT? I Don't Care! Call Now for new & used. 713-489-1574.

NEED TO SELL! Nice 3 bedroom mobile home in this area by May 1, 1998. No dealers please! 512-573-3923

NOW OPEN! Giant Oakwood Mobile Home Super Store in Victoria, Texas. 5+ acres of homes to choose from! Grand Opening! No applications refused! 1-800-573-9909

OLDER MOBILE HOME Furnished, on 2 lots, garage, 2 septic systems, close to Demi John Island & Bastrop Bayou, price negotiable. 713-585-6070.

0 DOWN Home And Land. Lake Lots. W/3-489-0685.

20 REPO'S Like New, All Prices. NICE HOMES 713-489-1574.

'96'S ARE HERE '95 Must Go! "Stack'em Deep!" "Selfem Cheap!" Over 40 Fleetwood homes to choose from. Bargains galore on single-wide & doublewide! Since 1980. El Campo Manufactured Housing. 1-800-486-7805

199 Legals or Public Notices

BID NOTICE

The City of Sweeney Intends to sell a 1982 1/2 ton pickup.

The 1982 pickup is a V-6 engine, automatic, long wheel base, air and power steering. The truck needs some repairs.

This vehicle can be seen at the City Barn at 209 W. Second Street or contacting Tim Moss, Director of Public Service, at (409) 548-7860.

Bids will be received until 10:00 A.M., Monday, August 19, 1998. The bids will

199 Legals or Public Notices

be opened at that time and then presented to Council at the regular Council Meeting for their action, August 20, 1998 at 7:00 P.M. Bids should be sealed and clearly marked "Bids on 1982 Pickup" and submitted to:

City of Sweeney
ATTN: Tina Bernhausen
P.O. Box 248
Sweeney, Texas 77480

The City of Sweeney reserves the right to reject any and/or all bids, to waive any and all technicalities and to accept any bid or part thereof which in the opinion of the City Council, is most advantageous to the City.

CITATION BY PUBLICATION

THE STATE OF TEXAS

TO: Roy Staats, Rt. 1, Box 370CX, Fort Worth, Texas 76108. Defendant, in the hereinafter styled and numbered cause:

YOU ARE HEREBY COM- MANDED to appear before the County Court at Law No. 3 and Probate Court of Brazoria County, Texas, to be held at the courthouse of said County in the city of Angleton, Brazoria County, Texas, at or before 10 o'clock A.M. on the first Monday after the expiration of 42 days from the date of issuance hereof; that is to say, at or before 10 o'clock A.M. on Monday the 16th day of September, 1998, and answer the petition of plaintiff in Cause No. 19,813B, styled

The State of Texas, Plaintiff VS. Darin Jay Staats, et al, Defendant

filed in said Court on the 12th day of October, 1993. The nature of said suit being substantially as follows, to wit: Bond forfeiture Cause No. 73,939B for failure to appear on June 18, 1993.

Plaintiff is represented by Keith Allen, Assistant District Atty. whose address is 111 E. Locust, Suite 408A, Angleton, Texas 77515.

ISSUED AND GIVEN UNDER MY HAND AND SEAL OF said court at office, this 23rd day of July, 1998.

DOLLY BAILEY, County Clerk Brazoria County, Texas 111 E. Locust, Suite 200 Angleton, TX 77515-4654

NOTICE

You have been sued. You may employ an attorney. If you or your attorney do not file a written answer with the clerk who issued this citation by 10:00 A.M. on the Monday next following the expiration of 42 days after you were served this citation and petition, a default judgment may be taken against you. (RULE 99c and Rule 114 Texas Rules of Civil Procedure.)

A true copy, I certify. E.J. King, Sheriff Brazoria County, Texas

By Anne Longoria, Deputy

CITATION BY PUBLICATION

THE STATE OF TEXAS

TO: Tariq Khan, 3400 Woodchase #2201, Houston, Texas 77001, Defendant, in the hereinafter styled and numbered cause:

YOU ARE HEREBY COM- MANDED to appear before the County Court at Law No. 3 and Probate Court of

199 Legals or Public Notices

Brazoria County, Texas, to be held at the courthouse of said County in the city of Angleton, Brazoria County, Texas, at or before 10 o'clock A.M. on the first Monday after the expiration of 42 days from the date of issuance hereof; that is to say, at or before 10 o'clock A.M. on Monday the 16th day of September, 1996, and answer the petition of plaintiff in Cause No. 20,248, styled

The State of Texas, Plaintiff
VS
Mohammed Khan, et al,
Defendant

filed in said Court on the 13th day of April, 1996. The nature of said suit being substantially as follows, to wit: Bond forfeiture Cause No. 74,968B for failure to appear on January 4, 1994.

Plaintiff is represented by Keith Allen, Assistant District Atty, whose address is 111 E. Locust, Suite 408A, Angleton, Texas 77515.

ISSUED AND GIVEN UNDER MY HAND AND SEAL OF said court at office, this the 23rd day of July, 1996.

DOLLY BAILEY,
County Clerk
Brazoria County, Texas
111 E. Locust, Suite 200
Angleton, TX 77515-4654

By J. Hudman, Deputy

NOTICE

You have been sued. You may employ an attorney. If you or your attorney do not file a written answer with the clerk who issued this citation by 10:00 A.M. on the Monday next following the expiration of 42 days after you were served this citation and petition, a default judgment may be taken against you. (RULE 99c and Rule 114 Texas Rules of Civil Procedure.)

A true copy, I certify.
E.J. King, Sheriff
Brazoria County, Texas

By Anne Longoria, Deputy

199 Legals or Public Notices**TO ALL INTERESTED PERSONS AND PARTIES:**

You are hereby notified that HERCULES MARINE SERVICES CORPORATION has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. 32768. This permit, if approved, will authorize construction of an air pollution control unit in Freeport, Brazoria County, Texas. The location of the existing facility is 906 Marlin. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the TNRCC Houston Regional Office, Air Program, at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing Ms. Kate Hauer, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments

199 Legals or Public Notices

will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on 7/30/96 and 7/31/96.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 362.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter. If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief

199 Legals or Public Notices

description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

185 Acreage For Sale**185** Acreage For Sale**Real Estate Offering - Sealed Bid**

Sealed Bid Deadline: August 12, 1996. "Last Asking Price" below provided for information purposes only. CASH OFFERS ONLY! Other properties also available. Call or fax request for information.

DEVELOPED LAND/LOTS, Brazoria Co. Key Largo Land on Bluewater Hwy. 57 acres on Christmas Bay. 5 mi. so. of San Luis Pass. Ref. 3808. LAST ASKING PRICE \$110,000.

Commercial Real Estate Services, Inc.
(214) 443-3254 • Fax (214) 443-3226

Properties may be withdrawn at any time and prices subject to change without notice.

vice for more than an hour.

"That's our biggest concern about them closing down," said

Norwood said Monday that nothing at the hospital has affected current city budget projections or proposals.

Columbia-Alvin hospital's emergency room is the facility of choice, but not if the ambulances had to use another facility.

TO ALL INTERESTED PERSONS AND PARTIES

HERCULES MARINE SERVICES CORPORATION has made application with the Texas Natural Resource Conservation Commission for Air Quality Permit No. 32768 to construct an Air Pollution Control Unit in **Freeport, Brazoria County, Texas**. The location of the existing facility is 906 Marlin. Additional information concerning this application is contained in the public notice section of this newspaper. This notice is to be published on 7/30/96 and 7/31/96.

163 Free Pets**KITTENS**.....849-1958**POT BELLED****PUPPIES**.....233-8017**PUPPIES**.....265-9587**PUPPIES**.....798-9560**167 Mobile Homes For Rent****ANGLETON** 3-2, appliances, ch&a, washer/dryer connections. No petal \$450/mo. \$200 dep. 848-0749.**ANGLETON** Cute & Clean, decorated western style, small 2 BR, fireplace, appliances, \$375/mo., \$175 dep. References, no pets. 964-3772, 849-3903.**ANGLETON** Immaculate 2-1, appliances, CH/A, \$425/mo., \$200 dep. References, no pets, 964-3772, 849-3903.**ANGLETON** Small 2 BR, unfurnished, deposit & references required, 849-3321 or 849-7355.**OYSTER CREEK** Nice FURNISHED 2 bedroom, CH&A, washer & dryer. \$380/mo. +dep. NO PETS. Stransky's 233-5391.**RICHWOOD AREA** 2 BR, 1 BA. Access to pond, storage building, fenced. Very nice! \$375 mo. + \$350 dep. 409-849-4742.**168 Furnished Or Unfurnished Apartments****ANGLETON** Bastrop Bayou Skidlers & fisherman's paradise. 1 BR. 3 years old. \$300 & deposit, 848-1100.**169 Unfurnished Apartments****ANGLETON**, 1248 Chevy Chase. 2-1-1 duplex. \$395/mo & deposit. 849-3607.**ANGLETON** Large 1 bedroom apartment, email complex. Leave message, 849-0836 or 849-5173.**ANGLETON** 2-1-1/2 apartment & townhouse. From \$400/month. \$99 first month rent. 848-2750.**WILDWOOD MANOR** New Washers & Dryers. 849-4314.**CLEAN**, quiet & quality. Swimming pool! Ashley Forest Apts, 1000 W. Ashley Wilson, Sweeny, 848-5255.**L.J.** Large 1 bedroom condo for lease. Ceiling fan, washer/dryer, fireplace, balcony overlooks Garland Park \$420/mo. Call Kell at American Locators, 297-5555 or 713-621-8955 weekends/evenings.**WILDWOOD MANOR** Professional Fitness Center. 849-4314.**WILDWOOD MANOR** Two Tunnis Courts. 849-4314.**WILDWOOD MANOR** \$99 1st month 849-4314.**NOW LEASING** at April Park Apts. 1, 2 and 3 bedrooms, starting at \$265. 265-4797.**NOW LEASING** Must hurry going fast! Can you believe we're throwing away 2 weeks free rent out the door. Hurry, Hurry, going fast! Call & ask for Kim or Diane, 265-8799.**1-1 CONDO**. Washer, dryer & fireplace. Some units restricted. Rivertree Condominiums, 297-8511.**170 Furnished Apartments****BRAZORIA** - Furnished 1 bedroom w/color TV, A/C, tree cable & HBO. All this w/bills paid, as low \$90 per week. No pets. \$100 deposit. Brazoria North Shopping Center, 798-6959.**CABINS** - Surfside Beach TX. A/c, refrigerator, TV, security lights & parking. \$80/week, bills paid. Bob, 233-0814.**FRPT**, 1 bedroom house or 1 efficiency apt, utilities paid, no pets. Weekly or monthly w/dep. 233-3242 or 239-8199.**FURNISHED** large efficient apartment. Phone, TV, cable, a/c & private parking provided. \$125/wk, \$100 dep. 233-3886, weekdays between 6-8pm or anytime weekends.**SEAVIEW MOTEL**, Surfside. Rooms, trailers, kitchenette. TVs, cable. Bills paid. 233-9702.**CLASSIFIED CALL US TODAY!****169 Unfurnished Apartments****FRPT**, 1 bedroom house or 1 efficiency apt, utilities paid, no pets. Weekly or monthly w/dep. 233-3242 or 239-8199.**FURNISHED** large efficient apartment. Phone, TV, cable, a/c & private parking provided. \$125/wk, \$100 dep. 233-3886, weekdays between 6-8pm or anytime weekends.**SEAVIEW MOTEL**, Surfside. Rooms, trailers, kitchenette. TVs, cable. Bills paid. 233-9702.**CLASSIFIED CALL US TODAY!****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****170 Furnished Apartments****SINGLE** - \$100/WEEK

Cold air, refrigerator, cooking ok, no pets, bills paid, qualified person, no deposit. Bob, 233-0814.

WEEKLY \$85 up. Monthly \$325 up. Phone, A/C, cable, washer/dryer, hot plate at add charge. Economy Inn Motel, Ang. 849-5761.**171 Unfurnished Houses****ANGLETON**, 3 bedroom. \$525/month, \$400 deposit. 815 N. Rock Island. No petal 922-8393.**CLUTE** 3-1-1/2, CH&A, fenced yard w/ satellite dish & hook-up. \$750 mo. \$400 dep. 265-3164.**FLAORIDGE ESTATES** 51 Chickory Ct., 4 BR, approx 2700 sq. ft. Call 297-0291.**FREEPORT** 3-1 Duplex, range, refrig, W/D hookups, 1203 W. 9th St \$325/mo., \$325 dep., 297-4938.**FOR LEASE** Clean, large 1 bedroom, new carpet, mini blinds. Demi John, available 9/1/96. \$400 mo. \$350 dep. 233-9827.**FRPT** 1003 W. 10th 2 BR, den, washer/dryer hookups, screened porch, garage, workshop, AC. \$400 +\$300 dep. No pets. 798-5951.**LAKE JACKSON** 3 bedroom, 1 bath, 1 car garage, landscaped, fantastic deck! \$600/month, \$600/deposit. 1 year lease. 297-8305 or 235-6354. Landlord/Agent.**L.J.** 2-1-1 in nice neighborhood. \$450/month plus deposit. Call 798-7889.**L.J.** 3-1 Duplex, range, refrig, W/D hookups, 108 Grapevine, \$350/mo., \$350 dep., 297-4358.**L.J.** 4-2-1/2, \$1300 Call Kell at American Locators, 297-7700. Deposit required on all homes.**NICE NEIGHBORHOOD** 3-2; living, dining & family rooms; fenced yard. 124 E. Tamarind, L.J. \$200/mo. 910-766-1487.**4-2-1/2**, two story, formal dining room, very nice, in L.J., \$1200. Call The Prudential Shaver Real Estate, 297-5077.**179 Business Rentals****BUILD TO SUIT** on our property or yours. Professional, retail or commercial space. Contact Beaver Aplin, 409-265-6767 ext 5.**GREAT LOCATION** Hwy 332 in Clute next to Atlas Transmission. Will build to suit. Call 265-6767 ext. 5.**LAKE JACKSON** down town corner. Office or retail. Vacant. ABC Realty 297-9900.**L.J.** 110 Heather Lane. office space up to 1600 s.f. Storage or warehouse also available. 297-1970.**NEXT TO BUC-EES** Beach Store, 3800 sq. ft. \$1500 per month. Call Don at 265-6767 extension 4.**OFFICE SPACE** 500-6500 sq. ft. Oak Park Center, Clute. Office Warehouse, 800-4800 sq. ft. Freeport Business Park. LaLigo Land, 233-6884. Nights, 233-1745.**THE PROPERTY COMPANY** 297-1234**1,600 SQ. FT. ON HWY.** 332 - For lease Close to Oyster Creek Division of Dow. Office Warehouse. Lease with option to purchase. Call Tim O'Neill, 297-1234 for more info.**180 Business Opportunities****CAPPUCCINO MACHINE** 3 flavors, commercial quality. Only 4 left, \$495 each. Call Dawn, 265-0666.**181 Houses For Sale****159 DUTCH LAKE CRT** Oyster Creek 2 story, 3-2, \$45,000 or best offer. 233-5571.**ABC Gov't bids due 7-30** (Tues) Noon: 311 Travis, W.C. 2-1-1 & additional \$29,900. 297-9900.**ABC Acker Gov't Listing:** 537 Acker, Clute, large 4-2-2, \$56,200 or highest bid 297-9900.**ABSOLUTELY LOW DOWN****move in FHA/VA** 3-1-1, living, den, ch/a, large fenced yard. Mid \$50s. 512-477-4287 or 297-4414.**169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****181 Houses For Sale****ABOUT GOV'T HOMES**

- good financing offered on 311 Travis, W. Col. 2-1-1. \$29,900 and 537 Acker, Clute. 4-2-2, \$56,200. By bid. PROPERTY SERVICES, 297-3073.

ACCEPTING BIDS through July 31st. 3-2-2 plus study. 2-43 Any Way. Preview 7/28 2-30pm. Minimum bid \$89,500. Come by & pick up a flyer & bid sheet. 297-4049.**ALDOUS REAL ESTATE** 202 This Way, L.J. 297-1226

Serving The Brazosport Area With Fine Homes!

ALL REAL ESTATE advertised in this newspaper is subject to the Federal Fair Housing Act of 1968 which makes it illegal to advertise "any preference, limitation or discrimination based on race, color, religion or national origin, or an intention to make any such preference, limitation or discrimination." This newspaper will not knowingly accept any advertising for real estate which is in violation of the law. Our readers are hereby informed that all dwellings advertised in this newspaper are available on an equal opportunity basis.**ANGLETON** - Modular home! 3 bedroom, 2 bath. Just remodeled, large lot, \$37,000. Owner will finance! Call Tim O'Neill, 297-1234.**COLDWELL BANKER**

The Property Company 299-1166

ANGLETON Beautiful 3-2-2, 2 years old, near school, lots of extras. By owner, \$86,700. For appointment call 849-1775.**ANGLETON** beautiful 3-1-1/2 at end of quiet cul-de-sac, great neighborhood. \$54,500. Potential lease purchase w/ \$2500 down. 297-9896.**BENCHMARK BUILDERS**

Custom Homes For Sale In Lake Jackson. Call for free home tour. 265-6633

BRAZORIA AREA: 3 br, Hollywood bath, brk, CA&H, large country lot, Mid-\$60's. Will take house or MH for down. ABC 297-9900**CUSTOM BUILT HOME** on your lots or ours. Lots available in Flagridge. Thermal Tech Homes, Inc. 297-9499. Evenings, 297-8740.**\$49,900 AS IS!** Remodel you own 3BR, 1BA home on more than half an acre. All furniture stays. Call NOW for appt. (57A)**WILL CLARK**

849-2005 or 265-2005

FHA ASSUMABLE 3-2 custom home. New above ground pool. Custom wainscotting, cabinets, new paint, carpet, central air unit. \$104,500. 314 Raintree Ln. L.J. Open house Sat. & Sun. 297-8512.**GREAT HOME!** 3 bedroom, 2 bath on 2 acre lot in Brazoria. Large oak & pecan trees. 24' x 26' shop for motor home. Call Bobby Brown for more information.**COLDWELL BANKER**

The Property Company 299-1166

GREAT TERMS for first time buyer (or haven't owned home in 3 yrs). Come by & talk with us about buying a home now. PROPERTY SERVICES, 297-3073.**JONES CREEK** Brick 3-2-2, 1800 sq. ft. Built-ins, fireplace, dining room, on 1/2 acre. \$82,900. 233-4769.**JONES CREEK** 118 Nelson. By owner! Updated 3-2-2, CH&A, dining room, utility room, fireplace, screen porch, extras. \$71,500. 239-2877.**LIFETIME HOME** in this SBR 3BA, 2 half baths home w/ formal living & dining rooms plus gameroom. Loaded w/ amenities. Magazine picture home in Timbercreek, L.J. PROPERTY SERVICES, 297-3073.**169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****169 Unfurnished Apartments****181 Houses For Sale****LOCATED ON** beautiful tree shaded lot. Owner is making repairs to 3BR, 2BA Brk, Richwood. Extra room could be study/4th BR. \$63,900. PROPERTY SERVICES, 297-3073.**LOW MOVE IN COST** for first time buyers or veterans. 2BR, 1 1/2 BA brk home. Freeport. Range, ch&a. \$29,900. PROPERTY SERVICES, 297-3073.**NEAR ELEMENTARY SCHOOL** Fenced shaded back yard freshly painted inside. 3BR home w/ alarm. Freeport. \$20's. PROPERTY SERVICES, 297-3073.**NEAT & CLEAN** Located on 2 lots this comfortable home has had tender love & care & comes with children's play house, storage building & beautiful pear tree. Affordably priced at \$40,900. Freeport. PROPERTY SERVICES, 297-3073.**NEWLY REMODELED** 4 bedroom, 3 bath home in Yaupon area! New appliances, new kitchen appliances, screened/heated pool/jacuzzi. Call Bobby Brown for more details.**COLDWELL BANKER**

The Property Company 299-1166

OPPORTUNITY Knocked! Frpt duplex 3-1 & 2-1, 1134 -1200 W 10th. Best offer before 7/30. 713-952-2343. Evenings 713-980-8024.**PRICED RIGHT** in Angleton. Non-qualifying assumption in the \$50's. 3 BR, 2 B A. Call Nanette 233-7828.**RICHWOOD** By owner. Brick 3-2-2, inside utility, landscaped, low traffic area, near Polk Elem. \$69,000. 318 Quail Run. By appointment only, 265-3275.**SARGENT** Owner financing. 3-2, new carpet & vinyl, ceiling fans, a/c, fenced, community pool, pier, boat ramp & security gates. 713-335-8648.**182 Resort Property****TWO LOTS** with septic, water & electricity on Carancahue Rd. 35' pier. \$20,000, 549-3591.**183 Lots For Sale****CLUTE** Large wooded lot on Riley Road. Owner finance. \$1000 down. 297-4577.**JONES CREEK** 2 clean lots, gas & water available, large pecan trees, 10% down, owner will finance. Call 964-3167.**LOT 41A Buffalo Ct.** In Buffalo Camp Farms. \$8000 or best offer. 504/275-3404.**RESIDENTIAL LOT** 75x120, ready to build on, Angleton. \$3500. PROPERTY SERVICES, 297-3073.**184 Commercial Property For Sale****COMMERCIAL LOCATION** 4 lots, Avenue A, Freeport, near Velasco Blvd. PROPERTY SERVICES, 297-3073.**185 Acreage For Sale****34 ACRES** for sale. About 5 miles west of Four Forks. Call 409-233-0343 or 713-337-1859 after 6pm.**ABC Realty** 297-9900 J.C. 1 to 14 ac. W.C. 5 ac. 1 ac Sweeney Lots on Baraco & Brazos Riv. Own Fin**THE PROPERTY COMPANY**

297-1234

FOLLETT BUILDING in Angleton, for lease. Near courthouse and close to Action in Angleton. Call: Tim O'Neill - 297-1234**THE PROPERTY COMPANY**

297-1234

70 ACRES - On C.R. 30. Owner will finance. Call: Tim O'Neill - 297-1234**186 Real Estate Wanted****WE BUY HOUSES** frame or brick, or trade your house for larger country brick. ABC 297-9900**196 Mobile Homes For Sale****NO MONEY DOWN** - Limited time offer. Own your own lot in a country-type atmosphere, restricted subdivision near Alvin. Low monthly payments. Single & doublewide lots avail. Financing available. Call 713-331-3091**198 Mobile Homes For Sale****HOME OR LAND** Country Living. 0 DOWN. No Turn Downs. 713-489-0085.**NEED A Mobile Home Loan? BAD CREDIT? I Don't Care!**

Call Now for new & used. 713-489-1574.

NEED TO SELL Nice 3 bedroom mobile home in this area by May 1, 1996. No dealers please! 512-573-3923**NOW OPEN** Giant Oakwood Mobile Home Super Store in Victoria, Texas. 5+ acres of homes to choose from! Grand Opening! No applications refused! 1-800-573-9908**OLDER MOBILE HOME**

Furnished, on 2 lots, garage, 2 septic systems, close to Demi John Island & Bastrop Bayou, price negotiable. 713-685-6070.

0 DOWN

Home And Land. Lake Lots. Wooded Lots. 713-489-0085.

WILLOW MANOR
\$400/month. \$99 first month
rent. 848-2750.

WILLOW MANOR
New Washers
& Dryers.
849-4314.

CLEAN, quiet & quality.
Swimming pool! Ashley For-
est Apts, 1000 W. Ashley
Wilson, Sweeny, 548-5255.

L.J., Large 1 bedroom con-
do for lease. Ceiling fan,
washer/dryer, fireplace, bal-
cony overlooks Garland
Park. \$420/mo. Call Kelli at
American Locators, 297-
5555 or 713-621-8955
weekends/evenings.

WILLOW MANOR
Professional
Fitness Center.
849-4314.

WILLOW MANOR
Two Units Courts.
849-4314.

WILLOW MANOR
\$99 1st month
849-4314.

NOW LEASING
at April Park Apts.
1, 2 and 3 bedrooms,
starting at \$265.
265-4797.

NOW LEASING
Must hurry going fast! Can
you believe we're throwing
away 2 weeks free rent out
the door. Hurry, Hurry, go-
ing fast! Call & ask for Kim
or Diane, 265-8799.

1-1 CONDO. Washer,
dryer & fireplace. Some
units restricted. Rivertree
Condominiums, 297-8511.

170 Furnished
Apartments
BRAZORIA - Furnished 1
bedroom w/color TV, A/C,
tree cable & HBO. All this
w/bills paid, as low \$90 per
week. No pets. \$100 deposi-
t. Brazoria North Shopping
Center, 798-6959.

CABINS - Surfside Beach
TX. A/c, refrigerator, TV, se-
curity lights & parking.
\$80/week, bills paid.
Bob, 233-0814.

FRPT, 1 bedroom house or
1 efficiency apt, utilities
paid, no pets. Weekly or
monthly w/deposit.
233-3242 or 239-8199.

FURNISHED large effi-
ciency apartment. Phone,
TV, cable, a/c & private
parking provided. \$125/wk,
\$100 dep. 233-3866, week-
days between 6-8pm or
anytime weekends.

SEAVIEW MOTEL, Surf-
side. Rooms, trailers, kitch-
ettes. TV, cable. Bills
paid. 233-8702.

CLASSIFIED
CALL US TODAY!

169 Unfurnished
Apartments

NICE NEIGHBORHOOD.
3-2; living, dining & family
rooms; fenced yard. 124 E.
Tamarind, L.J. \$800/mo.
910-766-1487.

4-2-1-2, two story, formal
dining room, very nice, in
L.J., \$1200.
Call The Prudential Shaver
Real Estate, 297-5077.

179 Business
Rentals
BUILD TO SUIT on our
property or yours. Profes-
sional, retail or commercial
space. Contact Beaver
Appln, 409-265-6767 ext 5.

GREAT LOCATION Hwy
332 in Clute next to Atlas
Transmission. Will build to
suit. Call 265-6767 ext 5

LAKE JACKSON
down town corner. Office
or retail. Vacant. ABC
Realty 297-9900.

L.J., 110 Heather Lane. of-
fice space up to 1600 sq. ft.
Storage or warehouse also
available. 297-1970.

NEXT TO BUC-EES
Beach Store, 3800 sq. ft.
\$1500 per month. Call Don
at 265-6767 extension 4.

OFFICE SPACE 500-
6500 sq. ft. Oak Park Cen-
ter, Clute. Office Ware-
house, 800-4800 sq. ft.
Freeport Business Park.
Latigo Land, 233-6884.
Nights, 233-1745.

THE PROPERTY
COMPANY
297-1234

1,600 SQ. FT. ON HWY.
332 - For lease! Close to
Oyster Creek Division of
Dow. Office Warehouse.
Lease with option to pur-
chase. Call Tim O'Neill,
297-1234 for more info.

180 Business
Opportunities
CAPPUCCINO
MACHINE 3 flavors,
commercial quality.
Only 4 left, \$495 each.
Call Dawn, 285-0666.

181 Houses
For Sale
159 DUTCH LAKE CRT
Oyster Creek. 2 story, 3-2,
\$45,000 or best offer.
233-5571.

ABC Gov't bids due 7-30
(Tues) Noon: 311 Travis,
W.C. 2-1-1 & addition!
\$29,900. 297-9900.

ABC NEW Gov't Listing:
537 Acker, Clute, large
4-2-2, \$56,200 or highest
bid! 297-9900.

ABSOLUTELY
LOW OR NO
move in FHA/V.A. L.J. 3-1-1,
living, den, ch/v, large
fenced yard. Mid \$50s.
512-477-4287 or 297-4414.

169 Unfurnished
Apartments

\$54,500. Potential lease
purchase w/ \$2500 down.
297-9896.

BENCHMARK
BUILDERS

Custom Homes For Sale
In Lake Jackson.
Call for free home tour.
265-6633

BRAZORIA AREA: 3 br,
Hollywood bath, brk, CA&H,
large country lot, Mid-\$60's.
Will take house or MH for
down. ABC 297-9900

CUSTOM BUILT HOME
on your lots or ours
Lots available in Flagridge.
Thermal Tech Homes, Inc.
297-9499
Evenings, 297-9740.

\$49,900 AS IS! Remodel
you own 3BR, 1BA home
on more than half an acre.
All furniture stays. Call
NOW for appt. (57A)

WILL CLARK
PROPERTIES
849-2000 or 265-2000

FHA ASSUMABLE
3-2 custom home. New
above ground pool. Custom
wainscoting, cabinets, new
paint, carpet, central air
unit. \$104,500.
314 Raintree Ln. L.J.
Open house Sat. & Sun.
297-8512.

GREAT HOME! 3 bed-
room, 2 bath on 2 acre lot
in Brazoria. Large oak & pe-
can trees. 24' x 26' shop for
motor home. Call Bobby
Brown for more information.

GOLDWELL BANKERS
The Property Company
299-1166

GREAT TERMS for first
time buyer (or haven't
owned home in 3 yrs).
Come by & talk with us
about buying a home now.
PROPERTY SERVICES,
297-3073.

JONES CREEK. Brick
3-2-2, 1800 sq. ft. Built-ins,
fireplace, dining room, on 1/2
acre. \$82,900. 233-4769.

JONES CREEK. 118 Nel-
son. By owner! Updated
3-2-2, CH&A, dining room,
utility room, fireplace,
screen porch, extras.
\$71,500. 239-2977.

LIFETIME HOME in a
beautiful setting. Gracious
living will be yours in this
5BR 3BA, 2 half baths
home w/ formal living & din-
ing rooms plus gameroom.
Loaded w/ amenities. Maga-
zine picture home in Tim-
bercreek, L.J. PROPERTY
SERVICES, 297-3073.

169 Unfurnished
Apartments

SANJOSE Owner financ-
ing. 3-2, new carpet & vinyl,
ceiling fans, a/c, fenced,
community pool, pier, boat
ramp & security gates.
713-335-8648.

182 Resort
Property

TWO LOTS with septic,
water & electricity on
Carancahuay Dr. 35' pier.
\$12000, 548-3591.

183 Lots
For Sale

CLUTE. Large wooded lot
on Riley Road. Owner fi-
nance. \$1000 down.
297-4577.

JONES CREEK. 2 clean
lots, gas & water available,
large pecan trees, 10%
down, owner will finance.
Call 964-3167.

LOT 41A Buffalo Ct.
In Buffalo Camp Farms,
-\$8000 or best offer.
504/275-3404.

RESIDENTIAL LOT -
75x120, ready to build on,
Angleton. \$3500. PROPER-
TY SERVICES, 297-3073.

184 Commercial
Property For Sale
COMMERCIAL LOCA-
TION. 4 lots, Avenue A,
Freeport, near Velasco
Bvd. PROPERTY SERVIC-
ES, 297-3073.

185 Acreage
For Sale
34 ACRES for sale. About
5 miles west of Four Forks.
Call 409-233-0343 or
713-337-1859 after 6pm.

ABC REALTY 297-9900
J.C. 1 to 14 ac; W.C. 5 ac;
1 ac Sweeny Lots on Ber-
nard & Brazos Riv. Own Fin

THE PROPERTY
COMPANY
297-1234

FOLLETT BUILDING in
Angleton, for lease. Near
courthouse and close to Ac-
tion in Angleton. Call:
Tim O'Neill - 297-1234

THE PROPERTY
COMPANY
297-1234

70 ACRES - On C.R. 30.
Owner will finance. Call:
Tim O'Neill - 297-1234

186 Real Estate
Wanted

WE BUY HOUSES frame
or brick, or trade your
house for larger country
brick. ABC 297-9900

196 Mobile Home
Lots For Sale
NO MONEY DOWN
Limited time offer.

Own your own lot in a
country-type atmosphere,
restricted subdivision near
Alvin. Low monthly pay-
ments. Single & doublewide
lots avail. Financing avail-
able. Call 713-331-3091.

198 Mobile Homes
For Sale

ABC REALTY 297-9900
2 bedrooms and large lots
near Brazoria & Richwood.
Owner finance.

DEALER REPO'S!
Absolutely NO money
out of pocket. Just
assume payments. 7 to
choose from. Call now
713-489-7410.

FLEETWOOD 3 bedroom,
2 bath, 14x80, CH&A, 3/4
inch plywood floors, Lee
Carpet with 3/4 inch pad, all
appliances, storm windows.
Setup on rental lot with dou-
ble carport & storage &
shed. \$9500. 265-4745.

Something to sell?
Call Us Classified!

construction of an air pollu-
tion control unit in Freeport,
Brazoria County, Texas.
The location of the existing
facility is 906 Martin. This
facility will emit the following
air contaminants: carbon
monoxide, oxides of nitro-
gen, sulfur dioxide, particu-
late matter, and hydrocar-
bons.

A copy of all materials in
the public file is available
for inspection and reproduc-
tion at the TNRCC Houston
Regional Office, Air Pro-
gram at 5425 Polk Street,
Suite H, Houston, Texas
77023-1423, telephone
(713) 767-3500, and at the
TNRCC Central Office,
12100 Park 35 Circle, Aus-
tin, Texas 78704, telephone
(512) 239-1000. The
facility's compliance file, if
any exists, is available for
public review in the Region-
al Office of the TNRCC. In-
quiries about the permit ap-
plication and any informa-
tion concerning any techni-
cal aspect of this application
can be obtained by writing
Ms. Kate Hauer, TNRCC
Office of Air Quality, New
Source Review Division
(MC-162), P.O. Box 13087,
Austin, Texas 78711-3087
or the TNRCC Houston Re-
gional Office.

You may submit written
comments concerning the
permit application to the
TNRCC Office of Air Qual-
ity, New Source Review Di-
vision in Austin. All written
comments received within
30 days after the second
publication of this notice
shall be considered by the
the TNRCC Executive Di-
rector in determining whether
to issue or not issue the
permit. All written comments
will be made available for
public inspection at the
TNRCC Central Office in
Austin. This notice is to be
published on 7/30/96 and
7/31/96.

Any person who may be af-
fected by emissions of air
contaminants from the pro-
posed facility may request
the Commission to hold an
informal public meeting
and/or contested case hear-
ing on the permit application
pursuant to Section
382.056(d) of the Texas
Health and Safety Code.
The Commission is not re-
quired to hold a contested
case hearing if the basis of
a request is determined to
be unreasonable. All re-
quests for a contested case
hearing must be received in
writing within the 30-day
comment period regardless
of whether an informal pub-
lic meeting has been held
or scheduled on this matter.
If you wish to request a
public hearing, you must
submit your request in writ-
ing. You must state (1) your
name, mailing address, and
daytime phone number; (2)
the permit number or other
recognizable reference to
this application; (3) the
statement "I/we request a
public hearing"; (4) a brief
description of how you, or
the persons you represent,
would be adversely affected
by the granting of the ap-
plication; (5) a description
of the location of your property
relative to the applicant's
operations; and (6) your
proposed adjustment to the
application/permit which
would satisfy your concerns
and cause you to withdraw
your request for hearing.
Requests for a public hear-
ing on this application
should be submitted in writ-
ing to Office of the Chief

discriminated against on the
ground of race, color, sex
or national origin in having
full opportunity to submit
bids in response to this in-
vitation, and in consideration
for an award.

REQUEST FOR BIDS
ON TEXAS HIGHWAY
CONSTRUCTION
Sealed proposals for 1.489
miles of construct and re-
pair drainage structure on
League Line Road covered
by ER 95(186) in Montgom-
ery County, will be received
at the Texas Department of
Transportation, Austin, Tex-
as, until 1:00 P.M., August
10, 1996, and then publicly
opened and read.

This contract is subject to
all appropriate Federal laws,
including Title VI of the Civil
Rights Act of 1964. The
Texas Department of Trans-
portation hereby notifies all
bidders that it will insure
that bidders will not be dis-
criminated against on the
ground of race, color, sex
or national origin, in having
full opportunity to submit
bids in response to this in-
vitation, and in consideration
for an award. Plans and
specifications, including
minimum wage rates as
provided by Law, are avail-
able for inspection at the of-
fice of Charles Gaskin, Jr.,
Area Engineer, Conroe,
Texas, and at the Texas
Department of Transporta-
tion, Austin, Texas. Bidding
proposals are to be request-
ed from the Construction
and Maintenance Division,
200 East Riverside Drive,
Austin, Texas 78704-1205.
Plans are available through
commercial printers in Aus-
tin, Texas, at the expense
of the bidder.

Usual rights reserved.

**JOIN THE COOL CROWD!**
\$99 MOVE-IN
1 Bedrooms Only,
New Residents, Limited Time
OPEN LATE THURSDAYS
By Appointment

•Free Extended Basic Cable •Mini-Blinds •Playground
•Laundry Rooms •Ceiling Fans •Sparkling Pools
•W/D Connections •Ice makers & Microwaves (in select units) •10% Senior Citizen Discount

OAK PARK APTS.
202 HACKBERRY, CLUTE 265-8084

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

July 10, 1996

Mr. Thomas E. Hord
Vice President
HERCULES MARINE SERVICES
CORPORATION
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair Facility
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

Your application for a permit application is under review. The Texas Clean Air Act and 30 TAC Section 116.131 (Regulation VI) require that you provide public notification as follows:

1. Publish information required by §116.132(a) and (b) in two successive issues of a newspaper of general circulation in the municipality nearest where the facility is to be located; refer to the enclosed Examples A and B;
2. Post notice at the proposed site in accordance with §116.133; refer to the enclosed Example C;
3. Provide copies of the publication to agencies and certify that signs have been posted in accordance with §116.134; refer to the enclosed Notification List and Certification Form; and
4. You may also be required to publish notice in an alternate language newspaper and post signs in an alternate language; refer to the enclosed Bilingual Notice Requirements and Bilingual Notice Certification form. Spanish versions of Examples A, B, and C are available upon request by contacting the project engineer referenced below.

001052

Mr. Thomas E. Hord

Page 2

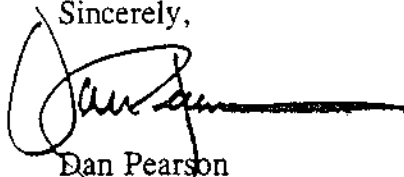
July 10, 1996

Re: Permit No. 32768

Please proceed with these notification procedures within two weeks. Failure to proceed and furnish copies of correct publications to the Texas Natural Resource Conservation Commission and other agencies can result in your application being voided.

If you have any questions concerning these requirements, please contact Ms. Kate Hauer of the Office of Air Quality, New Source Review Division at (512) 239-1372.

Sincerely,

A handwritten signature in dark ink, appearing to read "Dan Pearson", with a long horizontal stroke extending to the right.

Dan Pearson
Executive Director
Texas Natural Resource Conservation Commission

DP/KH/bg

Enclosures

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Ms. Gloria Vasquez, Chief Clerk, Austin

001053

Publication in the Public Notice Section of the Newspaper

TO ALL INTERESTED PERSONS AND PARTIES:

You are hereby notified that **HERCULES MARINE SERVICES CORPORATION** has applied for Texas Natural Resource Conservation Commission (TNRCC) Air Quality Permit No. **32768**. This permit, if approved, will authorize construction of a **Facility in Freeport, Brazoria County, Texas**. The location of the **existing** facility is **906 Marlin**. This facility will emit the following air contaminants: carbon monoxide, oxides of nitrogen, sulfur dioxide, particulate matter, and hydrocarbons.

A copy of all materials in the public file is available for inspection and reproduction at the **TNRCC Houston Regional Office, Air Program at 5425 Polk Street, Suite H, Houston, Texas 77023-1423, telephone (713) 767-3500**, and at the TNRCC Central Office, 12100 Park 35 Circle, Austin, Texas 78753, telephone (512) 239-1000. The facility's compliance file, if any exists, is available for public review in the Regional Office of the TNRCC. Inquiries about the permit application and any information concerning any technical aspect of this application can be obtained by writing **Ms. Kate Hauer**, TNRCC Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087 or the TNRCC Houston Regional Office.

You may submit written comments concerning the permit application to the TNRCC Office of Air Quality, New Source Review Division in Austin. All written comments received within 30 days after the second publication of this notice shall be considered by the TNRCC Executive Director in determining whether to issue or not issue the permit. All written comments will be made available for public inspection at the TNRCC Central Office in Austin. This notice is to be published on (a)* and (b)*.

Any person who may be affected by emissions of air contaminants from the proposed facility may request the Commission to hold an informal public meeting and/or contested case hearing on the permit application pursuant to Section 382.056(d) of the Texas Health and Safety Code. The Commission is not required to hold a contested case hearing if the basis of a request is determined to be unreasonable. All requests for a contested case hearing must be received in writing within the 30-day comment period regardless of whether an informal public meeting has been held or scheduled on this matter. If you wish to request a public hearing, you must submit your request in writing. You must state (1) your name, mailing address, and daytime phone number; (2) the permit number or other recognizable reference to this application; (3) the statement "I/we request a public hearing"; (4) a brief description of how you, or the persons you represent, would be adversely affected by the granting of the application; (5) a description of the location of your property relative to the applicant's operations; and (6) your proposed adjustment to the application/permit which would satisfy your concerns and cause you to withdraw your request for hearing. Requests for a public hearing on this application should be submitted in writing to Office of the Chief Clerk (MC-105), Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, Texas 78711-3087, telephone (512) 239-3300.

Before a permit can be issued for this facility, the applicant must demonstrate that all emission sources are in compliance with all TNRCC air quality rules and regulations and all applicable Federal regulations. This includes the application of "best available control technology" to each new or modified emission source and compliance with all ambient air quality standards.

.....

see "EXAMPLE A NOTES"

Notes: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

Publication Elsewhere in the Newspaper

TO ALL INTERESTED PERSONS AND PARTIES:

HERCULES MARINE SERVICES CORPORATION has made application with the Texas Natural Resource Conservation Commission for Air Quality Permit No. **32768** to construct a Facility in **Freeport, Brazoria County, Texas**. The location of the **existing** facility is **906 Marlin**. Additional information concerning this application is contained in the public notice section of this newspaper. This notice is to be published on (a) and (b).

.....
*see "EXAMPLE B NOTES"

Notes: Insert the dates of publication in blanks (a) and (b) if this notice will be published twice. Delete the sentence if this notice will be published only once. Bolded text highlights critical information; however, bolded fonts are not required in the newspaper print.

NOTIFICATION LIST AND CERTIFICATION FORM

It is the responsibility of the applicant to furnish the following offices with copies of the notices published, a completed copy of any Publishers' Affidavits required (example enclosed), a completed copy of the Bilingual Notice Certification Form, and a completed copy of the sign certification found at the bottom of this page. Originals should be sent to the TNRCC Office of Air Quality, New Source Review Division in Austin.

Environmental Protection Agency
Regional Administrator
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Ms. Karen Atkinson, Manager
Air Program
TNRCC Region No. 12
5425 Polk Street, Suite H
Houston, Texas 77023-1423

Texas Natural Resource
Conservation Commission
Office of Air Quality
New Source Review Division (MC-162)
Ms. Kate Hauer
P.O. Box 13087
Austin, Texas 78711-3087

Leo D. O'Gorman, M.D., Director
Brazoria County Health Department
432 East Mulberry
Angleton, Texas 77515

I certify that the signs required by Title 30 Texas Administrative Code, Section 116.133 were posted in accordance with the provisions of that section. I also certify that copies of the notices and the requested certifications have been furnished to the above listed offices in accordance with §116.134.

Signed by: _____
Title: _____
Company: _____
Date: _____

001056

ATTENTION: BILINGUAL NOTICE REQUIREMENTS FOR
PERMITS

Title 30 Texas Administrative Code Sections 116.132(c) and 116.133(f) require public notice in each alternate language for which a bilingual educational program at the elementary or middle school nearest the facility is required under the Education Code Section 21.109 and the Title 19 Texas Administrative Code Section 89.2(a).

Bilingual public notification rules require determining whether an applicable program exists at either the elementary or middle school nearest to the proposed facility location. Bilingual education programs are determined on a district-wide basis. When students who are required to attend either school are enrolled in a bilingual education program, §116.132(c) and §116.133(f) apply. Since the school district, and not the schools, must provide the bilingual education program, these programs do not have to be located at the above-mentioned schools.

Section 116.132(c) requires publication of alternate language newspaper notices in a newspaper or publication of general circulation. Publications of alternate language notices must be made in a newspaper or publication printed in each language taught in the bilingual education program, if such a newspaper or publication exists in the municipality or the county where the facility is or will be located. If a general circulation newspaper or publication printed in such language cannot be found, publishing in that language is not required. Publication in an alternate language section or insert within a large publication which is not printed primarily in that alternate language does not satisfy these requirements. Notice must be published in two consecutive issues if the newspaper is published once a week or more frequently. Otherwise, only one publication is required.

Section 116.133(f) requires posting of alternate language signs if a bilingual education program is required at the elementary or middle school nearest the facility. A sign in each such language should be posted adjacent to each English language sign. **It is important to note that, if sign posting is required under §116.133(f), the signs must be posted even if the publishing required under §116.132(c) could not be done.**

The applicant has the burden to demonstrate compliance with §116.132(c) and §116.133(f). To satisfy this burden, the applicant must:

A. Certify that either:

- (1) A diligent search found that there are no bilingual educational program requirements; or
- (2) A bilingual educational program is required; and

B. If a bilingual educational program is required, the applicant must:

- (1) Certify which languages are required in the program and post signs in those languages, and
- (2) Publish notices in each of those languages and provide copies of the required publications in each language; or
- (3) Certify the applicant conducted a diligent search and:
 - a. Found no appropriate newspapers or publications in the specified languages; or
 - b. The applicant found appropriate newspapers or publications, but the publisher(s) of the newspapers refused to publish notice, (the applicant must specify which newspaper or publication refused to publish notice).

It is suggested the applicant work with the local school district to do the following:

- (a) determine if a bilingual program is required in the district;
- (b) locate the nearest elementary and middle schools;
- (c) determine if any students required to attend either school are enrolled in a bilingual educational program; and
- (d) which languages are utilized by the students enrolled in the program.

***Public notice examples in Spanish are available from the permit engineer upon request.**

BILINGUAL NOTICE CERTIFICATION FORM

I certify that, by signifying answers with initials:

Initials

(a) I have contacted the appropriate school district, and a bilingual program exists in the district;

or, I have contacted the appropriate school district, and NO bilingual program exists in the district

School District: _____
Contacted: _____
Date: _____

(b) The name of the elementary school nearest to the proposed facility is:

(c) The name of the middle school nearest to the proposed facility is:

(e) Students who are required to attend one of the schools above are enrolled in a bilingual program provided by the district; _____ Yes _____ No

(f) The following language(s) is/are utilized by students enrolled in the program:

Signed by: _____
Title: _____

Company: _____
Date: _____

If an applicable bilingual program exists, post signs and publish notice as outlined in "Bilingual Notice Requirements."

* I certify that the alternate language signs were posted as required in 30 TAC §116.133(f).

Signed by: _____
Title: _____

Company: _____
Date: _____

* I certify that the company conducted a diligent search for a newspaper or publication of general circulation in the municipality or county in which the facility is located or proposed to be located and that no such newspaper or publication was found in any of the following languages in which notice is required: _____

Signed by: _____
Title: _____

Company: _____
Date: _____

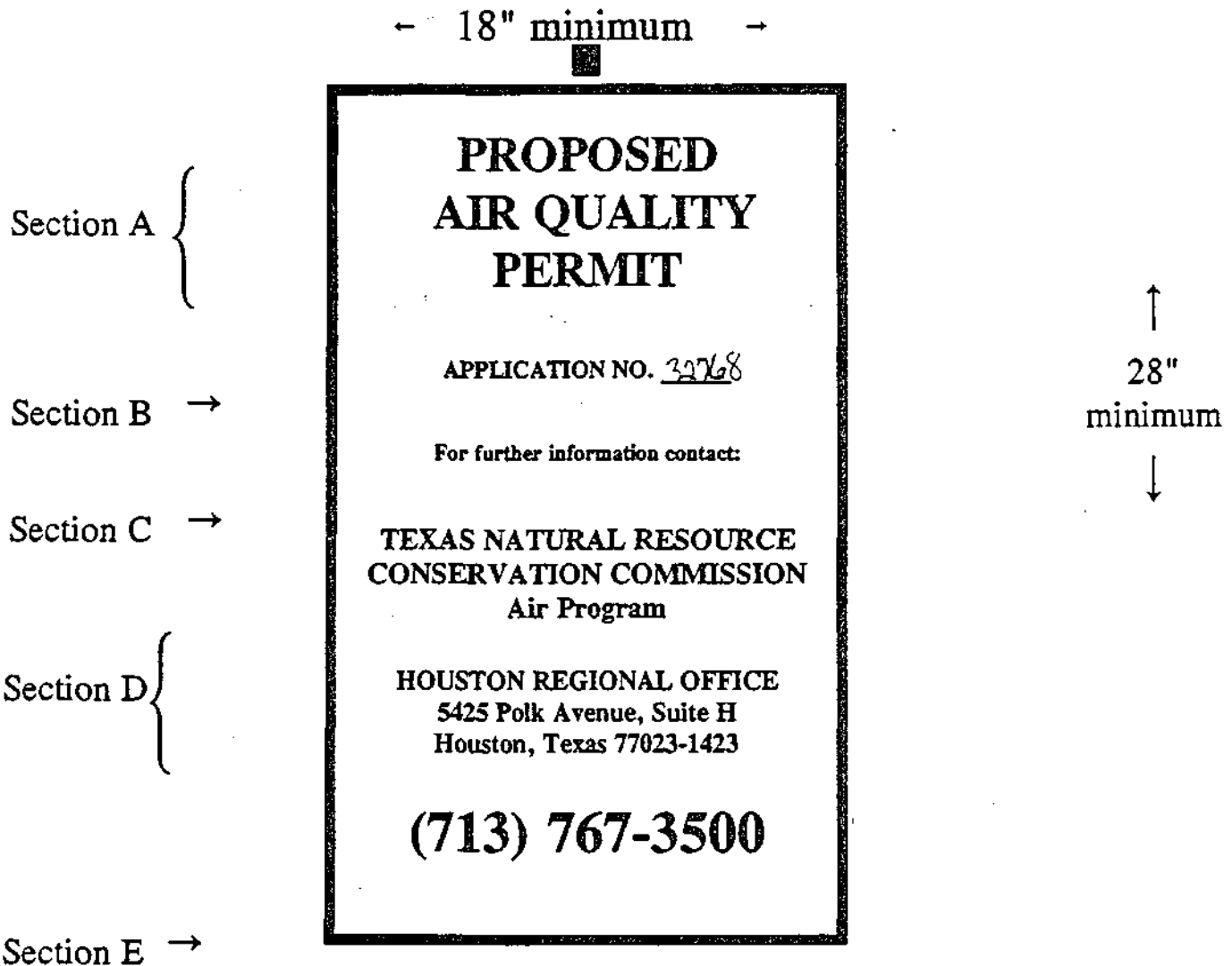
* I certify that the publishers of the following newspapers have refused to publish notice as requested, and no other newspaper or publication in the same language and of general circulation was found in the municipality or county in which the facility is located or proposed to be located:

Newspaper: _____
Signed by: _____
Title: _____

Language: _____
Company: _____
Date: _____

EXAMPLE C
SIGN POSTING

Sign(s) must be in place on day of publication of first newspaper notice and must remain in place and be legible for the 30-day public comment period (which begins on the last day of newspaper publication). Note - The information shown is an example only. It is your responsibility to verify the appropriate information pertaining to your application is accurate. Each sign placed at the site must be located within 10 feet of each (every) property line paralleling a street or other public thoroughfare. Signs must be spaced at not more than 1500-foot intervals. A minimum of one sign but not more than three signs shall be required along any property line paralleling a public thoroughfare.



Sign(s) must be placed at whatever height above the ground is necessary for sign(s) to be 100% visible from the street.

WHITE BACKGROUND WITH BLACK LETTERS

Section A - 2" bold-face block printed capitals
Section B - 1" bold-face block printed capitals
Section C - 1/2" lettering

Section D - 1" bold-face caps, 3/4" bold-face lower case
Section E - 2" bold-face numbers

Note: The above are minimum acceptable letter sizes.

001059

PUBLIC NOTICE CHECKLIST

BEFORE PUBLICATION - Applicants are advised to look over the following items prior to sending the articles to the newspaper for publication. Early correction of any mistakes could prevent republication.

- Does the regional office, the central office, and all appropriate local programs (if any) have a copy of your application to construct?
- Have you received a letter from the TNRCC authorizing public notice?
- Have you determined all alternative language requirements?
- Have you received all appropriate publication examples (including alternate languages) from the TNRCC?
- Have you received all appropriate sign posting examples (including alternate languages) from the TNRCC?
- Will your sign(s) be ready for posting on the first day of publication?
- Have you verified that the example articles enclosed in this package and your prepared sign(s) contain the correct permit application information (i.e., permit application number, air contaminants, regional office address, etc.)? Contact the central office in Austin if errors are found or if you wish to change the contents of the articles or sign(s).
- Do your instructions to the newspaper ensure that all notices will be published in the proper locations and are of the correct sizes?
- Does the newspaper of your choice for the English publication satisfy the requirement: "of general circulation in the municipality nearest where the facility is to be located"? Contact the regional office if you have questions on this matter.
- Does the newspaper of your choice for the alternate language publication satisfy the requirement: "of general circulation in the county where the facility is to be located"? Contact the regional office if you have questions on this matter.
- Have you identified the exact dates of publication for the newspaper(s)?

AFTER PUBLICATION - The following requirements are the responsibility of the applicant and should be completed after publication has been completed:

- Personally check all issues of the paper for your publications to ensure that the articles were accurately published.
- Mail copies of the following items to each office listed on the enclosed Notification List:
 - Copies of all the actual notices attached to the complete page as they were published or a completed publisher's affidavit with one copy of each notice.
 - A completed Notification List and Certification Form and Bilingual Certification Form. (enclosed)
- Originals should be sent to the central office in Austin.
- Inspect the sign posting(s) daily to ensure they are present and visible throughout the public comment period.

A COPY OF THE NEWSPAPER NOTICES PUBLISHED AND THE DATE OF PUBLICATION
MUST BE FURNISHED TO THE AGENCIES INDICATED BELOW BY AN X IN THE BOX.

FEDERAL:

☒ Regional Administrator
Region 6
Environmental Protection Agency
1445 Ross Avenue
Dallas, Texas 75202-2733

☐ Mr. T. C. Michael, Acting Coordinator
Air Pollution Control Program
Department of Environmental
Management
5000 MLK Freeway
Fort Worth, Texas 76119

☐ Mr. Roy Ressel, R.S.
Environmental Health and
Air Pollution Control Program
WICHITA FALLS-WICHITA COUNTY
PUBLIC HEALTH DISTRICT
1700 Third Street
Wichita Falls, Texas 76301-2199

STATE:

☒ Office of Air Quality
New Source Review Division
Texas Natural Resource (MC-162)
Conservation Commission
P.O. Box 13087
Austin, Texas 78711-3087

☐ Mr. Ron Schultz, Director
Pollution Control Division
GALVESTON COUNTY HEALTH
DISTRICT
P. O. Box 939
La Marque, Texas 77568

INTERSTATE PROGRAMS:

☐ Mr. Paul Means, Director
ARKANSAS DEPARTMENT OF
POLLUTION CONTROL AND
ECOLOGY
P. O. Box 9583
Little Rock, Arkansas 72209

☒ Texas Natural Resource
Conservation Commission
Regional Office, Air Program
(in the region where the facility is to be
constructed)

☐ Mr. Rob Barrett, Director
HARRIS COUNTY POLLUTION
CONTROL DEPARTMENT
P. O. Box 6031
Pasadena, Texas 77506

☐ Mr. Mike McDaniel
Assistant Secretary
OFFICE OF ENVIRONMENTAL
AFFAIRS
P. O. Box 44006
Baton Rouge, Louisiana 70804

LOCAL PROGRAMS:

☐ Mr. Fred Rodgers, P.E.
Executive Officer
AUSTIN-TRAVIS COUNTY
HEALTH DEPARTMENT
15 Waller Street
Austin, Texas 78702

☐ Mr. David Fetterman, P.E.
Bureau of Air Quality Control
Environmental Health Division
DEPARTMENT OF HEALTH AND
HUMAN SERVICES
7411 Park Place
Houston, Texas 77087

☐ Mr. Michael J. Burkhardt
NEW MEXICO ENVIRONMENTAL
IMPROVEMENT AGENCY
P. O. Box 968
Santa Fe, New Mexico 87504-0968

☐ Mr. Roger Ramon,
Air Quality Specialist
CITY OF AUSTIN
P.O. Box 1088
Austin, Texas 78767

☐ Mr. Lonnie Carethers, Public Health
Supervisor
IRVING DEPARTMENT OF HEALTH
825 West Irving Boulevard
Irving, Texas 75060

☐ Mr. John W. Drake
Chief, Air Quality Service
OKLAHOMA STATE DEPARTMENT OF
HEALTH
P. O. Box 53551
Oklahoma City, Oklahoma 73153

☒ Leo D. O'Gorman, M.D., Director
BRAZORIA COUNTY HEALTH
DEPARTMENT
432 East Mulberry
Angleton, Texas 77515

☐ Mr. Steven L. Bacchus
Director of Utilities
CITY OF LEWISVILLE
151 West Church Street
Lewisville, Texas 75067

☐ Mr. Scott Hudson, R.S.
Technical Services Division
City of Carrollton Environmental
Health Department
P.O. Box 110535
Carrollton, Texas 75011

☐ Mr. Dale Allred, R.S.
Environmental Health Officer
CITY OF NACOGDOCHES
P. O. Box 648
Nacogdoches, Texas 75961

☐ Mr. Gene Lipnicky, P.E.
Air Pollution Control Program
DEPARTMENT OF HEALTH
AND HUMAN SERVICES
320 E. Jefferson Street
Dallas, Texas 75203

☐ Mr. Thomas Hatfield
Director of Health
CITY OF RICHARDSON
P. O. Box 309
Richardson, Texas 75080

☐ Mr. Jesus J. Reynoso, Program Supervisor
EL PASO CITY-COUNTY HEALTH
DISTRICT
1148 Airway Boulevard, Room 155
El Paso, Texas 79925

☐ Mr. Sam Sanchez, Chief Sanitarian
Division of Environmental Services
CITY OF SAN ANTONIO
332 West Commerce
San Antonio, Texas 78205

☐ Mr. Tom McDougald, R.S.
Environmental Health Officer
CITY OF FARMERS BRANCH
P. O. Box 340435
Farmers Branch, Texas 75234

☐ Mr. Richard Stolleis, Director
CITY OF SUGAR LAND
P. O. Box 110
Sugar Land, Texas 77487-0110

☐ Mr. Al Holguin, City Administrator
CITY OF WEBSTER
311 Pennsylvania
Webster, Texas 77598

001061

Example A Notes

1. **THIS PUBLIC NOTICE EXAMPLE IS PROVIDED BY THE TNRCC TO ASSIST THE APPLICANT IN THE PREPARATION OF THE NOTICE. THE APPLICANT IS RESPONSIBLE FOR ENSURING THE ACCURACY OF ALL INFORMATION PUBLISHED. ERRORS IN PUBLICATION MAY RESULT IN THE NECESSITY TO REPUBLISH NOTICE AT THE EXPENSE OF THE APPLICANT.**
2. This notice should be published in a newspaper of general circulation in the municipality nearest where the facility is to be located. The notice must be published in **two consecutive issues**, but not on the same date.
3. This notice (Example A) must appear in the **public notice section** of the newspaper.
4. The first paragraph of the public notice must contain the following information (please check these items for accuracy):
 - Name of permit applicant (company name).
 - Permit Application Number assigned by the TNRCC.
 - Name of unit to be permitted (i.e.; boiler, refinery, hot-mix asphalt plant, etc.).
 - City or town where permit unit is to be located. If outside the corporate limits of a city or town, list the nearest city or town.
 - County where permit unit is to be located.
 - Indication as to whether the application is for a proposed new facility, modification of an existing facility or proposed expansion project.
 - Description of location of permit unit in terms easily understood by the general public such as a street address or distance and direction from a public road, highway intersection or well-known landmark.
 - Air contaminants to be emitted.
5. The second paragraph must contain the addresses and telephone numbers of the TNRCC Central Office and the appropriate TNRCC regional office.
6. The blanks labeled (a) and (b) must be filled in with the two publication dates of the notice.
7. The notice shown in Example B must be published elsewhere in the same issues of the newspaper on the same dates that Example A is published.

Revised 05-22-96

001062

Example B Notes

1. **THIS PUBLIC NOTICE EXAMPLE IS PROVIDED BY THE TNRCC TO ASSIST THE APPLICANT IN THE PREPARATION OF THE NOTICE. THE APPLICANT IS RESPONSIBLE FOR ENSURING THE ACCURACY OF ALL INFORMATION PUBLISHED. ERRORS IN PUBLICATION MAY RESULT IN THE NECESSITY TO REPUBLISH NOTICE AT THE EXPENSE OF THE APPLICANT.**
2. This notice must be at least 96.8 square centimeters (15 square inches) with the shortest dimension at least 7.6 centimeters (3 inches).
3. This notice is intended to refer the public to the "Public Notice" section of the newspaper for more information regarding the permit application. This notice must be published in a prominent location (other than the public notice section) in the same two issues of the newspaper as the other required notice (Example A).
4. This notice must contain the following information (please check these items for accuracy):
 - Name of permit applicant (Company Name).
 - Permit Application Number assigned by the TNRCC.
 - Name of unit to be permitted.
 - Nearest City and County in which the facility will be located.

Description of location of permit unit in terms easily understood by the general public such as a street address or distance and direction from a public road, highway intersection or well-known landmark.
5. The blanks labeled (a) and (b) must be filled in with the two publication dates of the notice.

Revised 05-22-96

001063

PUBLISHER'S AFFIDAVIT

Notice is hereby given that application for Permit No. 3058A has been submitted to the Texas Natural Resource Conservation Commission (TNRCC) by the XXX Manufacturing Company for its facility located at 1400 W. Smith Street, Anytown, Any County, Texas. The facility has a steam generator and a waste alcohol recovery system. Air contaminants that can be emitted by this facility are: particulate matter, sulfur oxides, nitrogen oxides, carbon monoxide, and volatile organic compounds. Copies of the completed applications and TNRCC preliminary analysis are available for review at TNRCC Region No. XX at XXX Boulevard, XX Town, Texas 78000, Ph XXXXXXXX.

and TNRCC Office of Air Quality New Source Review Division (MC-162), P. O. Box 13087, Austin, Texas 78711-3087, (512) 239-1250. Any interested person may inspect these materials and submit written comments to the Executive Director of the TNRCC, including requests for public hearing pursuant to Section 3.27(c) of the Texas Clean Air Act. All comments and hearing requests must be submitted by December 28, 1992. All written correspondence and hearing requests submitted to the Executive Director shall be considered in determining whether or not the facility will be permitted.

TO ALL INTERESTED PERSONS AND PARTIES

The X Manufacturing Company has made application for Permit No. 3058A to the Texas Natural Resource Conservation Commission for a steam generator and a waste alcohol recovery system located at 1400 W. Smith Street, Anytown, Any County, Texas. Additional information concerning this application is contained in the public notice section of the newspaper.

STATE OF TEXAS
County of Any Where

Before me, the undersigned authority, on this day personally appeared

Jane Doe
of Anytown News-Journal, a daily newspaper of general circulation, published at Anytown, in Any County, Texas who deposes and says that the advertisement, as per copy attached, was published in the regular issue of the:

12th and 13th

May, 1996

Signed: Jane Doe

Subscribed and sworn to before me this the 20 day of May, 1996.

001064

Mary Smith
Notary Public in and for Any Where County, Texas
My Commission expires 00-00-00



FAX TRANSMITTAL

DATE: December 12, 1996 NUMBER OF PAGES (including this cover sheet: ☐)

TO: Name Mr. Larry Ballinger
Organization Hercules Marine Services
FAX Number 409 233 6375

FROM: TEXAS NATURAL RESOURCE CONSERVATION
COMMISSION

Name Kate Hauer
Division/Region Office of Air Quality/NSR Program
Telephone Number 512-239-1372
FAX Number 512-239-1300

NOTES:

Mr. Ballinger,

This letter was sent yesterday. If you have any questions, give me a call.

Kate Hauer

001065

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

December 10, 1996

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

We received the above-referenced permit application. We subsequently determined that additional information was necessary and requested this information by letter dated November 1, 1996 (copy enclosed). Please be advised that we have not received a satisfactory reply.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 15 days of the date of this letter will result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, please submit a new PI-1 application form and all the information requested above. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

001066

Mr. Thomas E. Hord

Page 2

December 10, 1996

Re: Permit No. 32768

Thank you for your cooperation in this matter. If you have questions concerning the review or this notice, please contact me at (512) 239-1372.

Sincerely,



Katherine C. Hauer
Chemical Section
New Source Review Division
Texas Natural Resource Conservation Commission

KH/ms

Enclosure

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton
Dr. H. M. Walker, H. M. Walker & Associates, Inc., Dickinson

001067

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



KCH

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 1, 1996

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide calculations for the degassing of barges. Speciate emissions from the combustor for each compound. Provide emission rates on Table 1a. These emissions need to be modeled to assess the on-shore impacts.
2. Provide a chemical list of all of the compounds that the barges will contain before being cleaned. This list will be included with the permit.
3. How are the vapors from the carbon canisters checked to ensure breakthrough has not occurred? Emissions from carbon canisters should be based on a breakthrough definition of 100 ppmv or less. Emission calculations can be found in the Carbon Adsorption Systems Standardization Package. Include speciated emissions on the Table 1a.

001068

Mr. Thomas E. Hord

Page 2

November 1, 1996

Re: Permit No. 32768

4. The carbons adsorption system represented in the application consists of two carbon canisters. This system is appropriate for controlling no more than two compounds at a time. For venting three or more compounds at a time, a minimum of three carbon canisters connected in series is required. Describe the emissions that will be vented to the carbon adsorption system.
5. The fugitive emissions are not represented in this application. Calculate the fugitive emissions according to the appropriate monitoring program found in the Equipment Leak Fugitives Standardization Package. Include these speciated emissions on the Table 1a.
6. There are no tank truck emissions for the recovered materials listed on the Table 1a. Explain the tank truck loading operations including the type of truck and type of connection used during the loading operation. The maximum collection efficiency associated with a vacuum truck is 95 percent depending upon the type of connections used. Provide tank truck loading emissions for this operation. Include these emissions on the Table 1a.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 30 days of the date of this letter may result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, a new PI-1 application form and all the information requested above will be required. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

001069

Mr. Thomas E. Hord

Page 3

November 1, 1996

Re: Permit No. 32768

Thank you for your cooperation in this matter. If you have questions concerning the review or this notice, please contact me at (512) 239-1372.

Sincerely,



Katherine C. Hauer

Chemical Section

New Source Review Division

Texas Natural Resource Conservation Commission

KH/ms

cc: Ms. Karen Atkinson, Air Program Manager, Houston

Mr. Rob Barrett, Director, Harris County Pollution Control Department, Pasadena

Dr. H. M. Walker, H. M. Walker & Associates, Inc., Dickinson

001070

Max hourly - ever need
max annual usage rate

CALCULATION OF SPRAY PAINT VOC EMISSIONS

Paint: Catha-cote 302 Inorganic Zinc primer using Catha-cote 302 clear converter. Ratio 4 to 1.

Primer has 3.45 ppg VOC content, converter has 5.465 ppg. So:

$$\begin{array}{rcl} 4 \times 3.45 & = & 13.80 \\ 1 \times 5.465 & = & 5.465 \\ \hline \end{array}$$

Total VOC in 5 gal = 19.265 lbs or 3.84 ppg of mix.

So to spray the limit of 6 lbs/hr use $6 / 3.84 = 1.56$ gal / hr.

But this mixture contains only 6 % n-Butanol. So:

$$\text{n-Butanol rate is } 1.56 \times .06 = .0936 \text{ gal/hr.}$$

The density of n-Butanol is 6.717 ppg @ 80 F. So:

$$.0936 \times 6.717 = .6289 \text{ lbs/hr.}$$

$$.6289 \times 453.6 / 3600 = .0792 \text{ grams / second.}$$

This can be sprayed with two spray guns simultaneousy. So:

$$\text{Rate} = .0792 / 2 = .0396 \text{ grams / second for each gun.}$$

Harry M. Walker

limited to 6 lb/hr ?

001071

H.M. WALKER & ASSOCIATES, Inc.

— Environmental Consultants

3321 East Bayou Drive
Dickinson, Texas 77539
Telephone: (713) 337-1177

October 5, 1996

Ms. K.C. Hauer
Chemical Section, Permits Section
TNRCC
P.O. Box 13087
Austin, TX 78711-3087

Re: Hercules Marine, Spray Painting

Dear Ms. Hauer:

Per our telephone conversation, please find enclosed sets of MSDS sheets for 4 two-component marine paint systems. All consist of a base and a "converter". All are mixed at a 4 to 1 ratio, base to converter. These were obtained via Fax from Devoe this week.

My request to Davoe was for "typical 2-component epoxy of urethane surface coatings", so I presume the 4 pairs are representative. I am surprised at how low the solvent content is in all of them.

Inspection of the sheets indicated that n-butanol seems to be the most frequently encountered VOC with the lowest ESL or TLV. While xylene is also frequently used, its high ESL of 3700 is not likely to be a test for your modeling.

Since Catha-cote 302 seemed to have the most butanol (ESL 750) I just ran a quick ISCST case to see where we are. My preliminary calculations are enclosed.

My case is enclosed. The grid maps at the back tell the story. The butanol impact at the nearest residence is only 74 ug/m³ (circled in red). The location of the spray guns are the red dots on the Hercules property. The second gridded output gives the count of exceedances per year of the ESL for butanol. There are none even on the Hercules property.

I hope that this information is helpful to you and will facilitate the completion of the permit by the November compliance date.

RECEIVED

OCT 08 1996

PERMITS PROGRAM

Sincerely,

Harry M. Walker

Harry M. Walker, Ph.D.
Environmental Consultant

001072

RUN: 10/03/96
AT: 23:00:47
Casefile is HERC1
Metfile is D:\METDAT2\IAHLC88.BIN
Outfile is HERC1.0UM

EPA INDUSTRIAL SOURCE CODE ATMOSPHERIC DISPERSION MODEL (SHORT TERM)

ISCST2 --- VERSION 93109-W5

CONVERTED TO DOS COMPATIBLE MICROCOMPUTERS BY H.M. WALKER 5/92

ORIGINAL SOURCE CODE FROM: EPA, VERSION 93109

CASE TITLE:

```
*****  
*  
*   HERCULES MARINE, FREEPORT, TX --- Spray Painting   *  
*   6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50 4//1 *  
*  
*****
```

ISCST2 ver 93109-W5 has features making it more convenient and useful. Receptor grid concentration values are printed in the form of a grid of exact 1:1 ratio which is suitable for the overlay of a plot plan or map. Output coordinates are in KM, inputs optionally so. The case title is 70 col wide, a 2nd title line is optional. A grid of hrs/over an input value is output. Sources have 15-character labels.

001073

*** 1SCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 1

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 600 Receptor(s)

**The Model Assumes A Pollutant Type of: N-BUTANOL

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Gridded Tables of Count of Values Exceeding an Input (THRESHold) Value
Model Outputs Gridded Tables of Highest Short Term Values by Receptor (Integer Values)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 6.10 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: HERC1 ; **Output Print File: HERC1.0UM

**Detailed Error/Message File: D:\I-110\ERROR.FIL

001074

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 2

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** POINT SOURCE DATA ***

| SOURCE | NUMBER | EMISSION | RATE | BASE | STACK | STACK | STACK | STACK | BLDG | RATE | | SOURCE |
|--------|--------|-------------|------------------------|----------|----------|----------|---------|----------|----------|--------|--------|----------|
| ID | PART. | (GRAMS/SEC) | UTM E | UTM N | ELEV. | HEIGHT | TEMP. | EXIT VEL | DIAM | EXISTS | VARIES | IDENTITY |
| | CATS. | | (KM) | (KM) | (METERS) | (METERS) | (DEG.F) | (M/SEC) | (METERS) | | BY | |
| 1_GUN | 0 | .0396 | 276.580 | 3205.753 | .0 | 2.00 | 32.0 | .001 | 1.00 | YES | | GUN_#_1 |
| 2_GUN | 0 | .0396 | 276.655 | 3205.738 | .0 | 2.00 | 32.0 | .001 | 1.00 | YES | | GUN_#_2 |
| | | ----- | | | | | | | | | | |
| | | .07920 | Total of point sources | | | | | | | | | |

001075

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 3

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID

SOURCE IDs

ALL 1_GUN , 2_GUN ,

RECEIVED

OCT 08 1996

PERMITS PROGRAM

001076

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 PAGE 4

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1_GUN

| IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK |
|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|
| 1 | 8.0, | 60.0, | 0 | 2 | 8.0, | 60.0, | 0 | 3 | 8.0, | 60.0, | 0 | 4 | 8.0, | 60.0, | 0 | 5 | 8.0, | 60.0, | 0 |
| 7 | 8.0, | 60.0, | 0 | 8 | 8.0, | 60.0, | 0 | 9 | 8.0, | 60.0, | 0 | 10 | 8.0, | 60.0, | 0 | 11 | 8.0, | 60.0, | 0 |
| 13 | 8.0, | 60.0, | 0 | 14 | 8.0, | 60.0, | 0 | 15 | 8.0, | 60.0, | 0 | 16 | 8.0, | 60.0, | 0 | 17 | 8.0, | 60.0, | 0 |
| 19 | 8.0, | 60.0, | 0 | 20 | 8.0, | 60.0, | 0 | 21 | 8.0, | 60.0, | 0 | 22 | 8.0, | 60.0, | 0 | 23 | 8.0, | 60.0, | 0 |
| 25 | 8.0, | 60.0, | 0 | 26 | 8.0, | 60.0, | 0 | 27 | 8.0, | 60.0, | 0 | 28 | 8.0, | 60.0, | 0 | 29 | 8.0, | 60.0, | 0 |
| 31 | 8.0, | 60.0, | 0 | 32 | 8.0, | 60.0, | 0 | 33 | 8.0, | 60.0, | 0 | 34 | 8.0, | 60.0, | 0 | 35 | 8.0, | 60.0, | 0 |
| | | | | | | | | | | | | | | | | | | | |

SOURCE ID: 2_GUN

| IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK | IFV | BH | BW | WAK |
|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|-----|------|-------|-----|
| 1 | 8.0, | 60.0, | 0 | 2 | 8.0, | 60.0, | 0 | 3 | 8.0, | 60.0, | 0 | 4 | 8.0, | 60.0, | 0 | 5 | 8.0, | 60.0, | 0 |
| 7 | 8.0, | 60.0, | 0 | 8 | 8.0, | 60.0, | 0 | 9 | 8.0, | 60.0, | 0 | 10 | 8.0, | 60.0, | 0 | 11 | 8.0, | 60.0, | 0 |
| 13 | 8.0, | 60.0, | 0 | 14 | 8.0, | 60.0, | 0 | 15 | 8.0, | 60.0, | 0 | 16 | 8.0, | 60.0, | 0 | 17 | 8.0, | 60.0, | 0 |
| 19 | 8.0, | 60.0, | 0 | 20 | 8.0, | 60.0, | 0 | 21 | 8.0, | 60.0, | 0 | 22 | 8.0, | 60.0, | 0 | 23 | 8.0, | 60.0, | 0 |
| 25 | 8.0, | 60.0, | 0 | 26 | 8.0, | 60.0, | 0 | 27 | 8.0, | 60.0, | 0 | 28 | 8.0, | 60.0, | 0 | 29 | 8.0, | 60.0, | 0 |
| 31 | 8.0, | 60.0, | 0 | 32 | 8.0, | 60.0, | 0 | 33 | 8.0, | 60.0, | 0 | 34 | 8.0, | 60.0, | 0 | 35 | 8.0, | 60.0, | 0 |
| | | | | | | | | | | | | | | | | | | | |

001077

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 5

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: HMW ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(KM)

| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 275.300, | 275.400, | 275.500, | 275.600, | 275.700, | 275.800, | 275.900, | 276.000, | 276.100, | 276.200, |
| 276.300, | 276.400, | 276.500, | 276.600, | 276.700, | 276.800, | 276.900, | 277.000, | 277.100, | 277.200, |
| 277.300, | 277.400, | 277.500, | 277.600, | | | | | | |

*** Y-COORDINATES OF GRID ***
(KM)

| | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3204.400, | 3204.500, | 3204.600, | 3204.700, | 3204.800, | 3204.900, | 3205.000, | 3205.100, | 3205.200, | 3205.300, |
| 3205.400, | 3205.500, | 3205.600, | 3205.700, | 3205.800, | 3205.900, | 3206.000, | 3206.100, | 3206.200, | 3206.300, |
| 3206.400, | 3206.500, | 3206.600, | 3206.700, | 3206.800, | | | | | |

001078

*** 10/03/96
*** 23:00:47
*** PAGE 6

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

| STABILITY CATEGORY | WIND SPEED CATEGORY | | | | | |
|-----------------------|---------------------|------------|------------|------------|------------|------------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| A | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 |
| B | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 | .70000E-01 |
| C | .10000E+00 | .10000E+00 | .10000E+00 | .10000E+00 | .10000E+00 | .10000E+00 |
| D | .15000E+00 | .15000E+00 | .15000E+00 | .15000E+00 | .15000E+00 | .15000E+00 |
| E | .35000E+00 | .35000E+00 | .35000E+00 | .35000E+00 | .35000E+00 | .35000E+00 |
| F | .55000E+00 | .55000E+00 | .55000E+00 | .55000E+00 | .55000E+00 | .55000E+00 |

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

| STABILITY CATEGORY | WIND SPEED CATEGORY | | | | | |
|-----------------------|---------------------|------------|------------|------------|------------|------------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| A | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 |
| B | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 |
| C | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 |
| D | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 | .00000E+00 |
| E | .20000E-01 | .20000E-01 | .20000E-01 | .20000E-01 | .20000E-01 | .20000E-01 |
| F | .35000E-01 | .35000E-01 | .35000E-01 | .35000E-01 | .35000E-01 | .35000E-01 |

001079

*** ISCST2 - VERSION 93109 *** *** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 7

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA FOR DAY 1 ***

FILE: D:\METDAT2\IAHLC88.BIN FORMAT: UNFORM
SURFACE STATION NO.: 12960 UPPER AIR STATION NO.: 3937
NAME: IAH NAME: LAKE
YEAR: 1988 YEAR: 1988

| YEAR | MONTH | DAY | HOUR | FLOW VECTOR | SPEED (M/S) | TEMP (K) | STAB CLASS | MIXING HEIGHT (M) RURAL | URBAN |
|------|-------|-----|------|----------------|----------------|-------------|---------------|----------------------------|-------|
| 88 | 1 | 1 | 1 | 181.0 | 3.60 | 285.9 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 2 | 168.0 | 4.63 | 285.4 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 3 | 184.0 | 5.14 | 284.3 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 4 | 173.0 | 6.17 | 282.0 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 5 | 173.0 | 5.14 | 280.9 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 6 | 162.0 | 5.66 | 279.8 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 7 | 185.0 | 3.60 | 279.8 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 8 | 183.0 | 4.63 | 279.3 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 9 | 157.0 | 5.66 | 279.8 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 10 | 171.0 | 5.66 | 280.4 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 11 | 184.0 | 6.17 | 280.4 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 12 | 176.0 | 5.66 | 281.5 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 13 | 203.0 | 6.17 | 281.5 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 14 | 189.0 | 6.17 | 282.0 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 15 | 192.0 | 5.66 | 282.6 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 16 | 194.0 | 4.63 | 282.6 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 17 | 211.0 | 4.63 | 283.2 | 4 | 427.0 | 427.0 |
| 88 | 1 | 1 | 18 | 187.0 | 5.14 | 283.2 | 4 | 425.1 | 425.1 |
| 88 | 1 | 1 | 19 | 164.0 | 4.63 | 283.2 | 4 | 421.6 | 421.6 |
| 88 | 1 | 1 | 20 | 197.0 | 6.17 | 282.6 | 4 | 418.1 | 418.1 |
| 88 | 1 | 1 | 21 | 210.0 | 5.66 | 281.5 | 4 | 414.6 | 414.6 |
| 88 | 1 | 1 | 22 | 192.0 | 7.20 | 280.9 | 4 | 411.1 | 411.1 |
| 88 | 1 | 1 | 23 | 200.0 | 5.66 | 280.4 | 4 | 407.6 | 407.6 |
| 88 | 1 | 1 | 24 | 230.0 | 9.26 | 279.8 | 4 | 404.1 | 404.1 |

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

RECEIVED

OCT 08 1996

PERMITS PROGRAM

001080

*** ISCST2 - VERSION 93109 *** *** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 8

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

** CONC OF N-BUTANOL IN MICROGRAMS/M**3 **

| Y-COORD (KM) | X-COORD (KM) | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 |
| 3206.800 | 9 | 10 | 10 | 12 | 10 | 11 | 9 | 15 | 12 | 9 | 14 | 15 | 11 | 11 | 14 | 14 | 10 | 10 | 10 | 13 | 11 | 13 | 12 | 12 |
| 3206.700 | 10 | 10 | 10 | 11 | 14 | 12 | 12 | 12 | 17 | 9 | 10 | 15 | 12 | 11 | 15 | 15 | 11 | 11 | 14 | 14 | 14 | 14 | 14 | 13 |
| 3206.600 | 12 | 10 | 11 | 11 | 11 | 15 | 14 | 14 | 18 | 15 | 11 | 17 | 14 | 12 | 16 | 15 | 12 | 11 | 15 | 14 | 15 | 15 | 15 | 14 |
| 3206.500 | 10 | 15 | 12 | 12 | 11 | 13 | 17 | 15 | 13 | 20 | 11 | 18 | 18 | 13 | 18 | 18 | 12 | 16 | 16 | 16 | 16 | 16 | 16 | 13 |
| 3206.400 | 14 | 13 | 13 | 17 | 15 | 15 | 14 | 19 | 17 | 19 | 20 | 20 | 17 | 14 | 21 | 17 | 14 | 19 | 17 | 18 | 18 | 18 | 14 | 16 |
| 3206.300 | 12 | 10 | 18 | 15 | 20 | 17 | 18 | 18 | 21 | 19 | 24 | 14 | 24 | 18 | 24 | 18 | 21 | 20 | 20 | 19 | 19 | 19 | 18 | 17 |
| 3206.200 | 10 | 13 | 13 | 14 | 22 | 19 | 27 | 22 | 23 | 24 | 21 | 26 | 29 | 26 | 29 | 21 | 27 | 24 | 21 | 22 | 21 | 21 | 18 | 19 |
| 3206.100 | 11 | 14 | 11 | 13 | 19 | 20 | 30 | 24 | 27 | 27 | 28 | 35 | 30 | 39 | 36 | 29 | 29 | 27 | 26 | 25 | 22 | 23 | 21 | 20 |
| 3206.000 | 17 | 17 | 14 | 14 | 19 | 19 | 21 | 29 | 42 | 46 | 32 | 37 | 45 | 54 | 47 | 44 | 39 | 28 | 30 | 30 | 28 | 21 | 18 | 21 |
| 3205.900 | 16 | 16 | 15 | 19 | 27 | 31 | 32 | 26 | 37 | 44 | 65 | 49 | 75 | 83 | 70 | 60 | 47 | 39 | 35 | 34 | 30 | 21 | 16 | 16 |
| 3205.800 | 17 | 18 | 20 | 22 | 26 | 31 | 36 | 40 | 53 | 57 | 87 | 76 | 112 | 215 | 138 | 79 | 59 | 41 | 33 | 27 | 26 | 24 | 20 | 17 |
| 3205.700 | 15 | 17 | 20 | 23 | 27 | 30 | 33 | 35 | 38 | 54 | 60 | 68 | 110 | 202 | 194 | 140 | 93 | 72 | 56 | 45 | 34 | 25 | 21 | 18 |
| 3205.600 | 16 | 18 | 20 | 20 | 23 | 28 | 26 | 31 | 37 | 39 | 44 | 58 | 74 | 80 | 84 | 66 | 70 | 65 | 63 | 46 | 38 | 32 | 27 | 25 |
| 3205.500 | 16 | 14 | 14 | 18 | 24 | 23 | 28 | 30 | 30 | 32 | 41 | 61 | 52 | 56 | 55 | 50 | 44 | 40 | 46 | 37 | 36 | 40 | 34 | 25 |
| 3205.400 | 16 | 16 | 17 | 20 | 22 | 22 | 25 | 25 | 24 | 37 | 62 | 33 | 39 | 41 | 41 | 47 | 31 | 34 | 37 | 34 | 32 | 29 | 26 | 27 |
| 3205.300 | 15 | 15 | 17 | 16 | 20 | 20 | 22 | 20 | 35 | 58 | 26 | 28 | 30 | 32 | 30 | 39 | 29 | 29 | 30 | 30 | 22 | 26 | 24 | 22 |
| 3205.200 | 14 | 14 | 16 | 17 | 18 | 19 | 15 | 33 | 53 | 24 | 21 | 24 | 25 | 25 | 23 | 25 | 38 | 24 | 26 | 26 | 25 | 24 | 17 | 21 |
| 3205.100 | 14 | 14 | 15 | 16 | 15 | 15 | 31 | 48 | 27 | 18 | 19 | 20 | 21 | 21 | 21 | 21 | 36 | 22 | 21 | 23 | 22 | 21 | 20 | 14 |
| 3205.000 | 13 | 13 | 14 | 11 | 15 | 29 | 44 | 28 | 16 | 17 | 16 | 18 | 18 | 19 | 18 | 18 | 23 | 31 | 20 | 21 | 20 | 19 | 19 | 18 |
| 3204.900 | 13 | 12 | 10 | 14 | 28 | 40 | 28 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 18 | 31 | 18 | 16 | 18 | 18 | 17 | 15 |
| 3204.800 | 9 | 9 | 13 | 26 | 36 | 28 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 23 | 26 | 17 | 13 | 16 | 16 | 15 |
| 3204.700 | 9 | 12 | 25 | 33 | 27 | 12 | 13 | 14 | 14 | 13 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 16 | 27 | 16 | 15 | 13 | 15 | 14 |
| 3204.600 | 13 | 24 | 31 | 27 | 14 | 12 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 22 | 22 | 14 | 12 | 13 | 13 |
| 3204.500 | 22 | 29 | 26 | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 15 | 23 | 15 | 13 | 10 | 13 |
| 3204.400 | 27 | 25 | 16 | 11 | 11 | 11 | 11 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 20 | 19 | 12 | 12 | 9 |
| (KM) | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 | | | | | | | | | | | | |

001081

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 9

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION COUNT OF VALUES > 750.0 UG/M3 ***

** EXCEEDANCES, OF INPUT THRESHOLD OF 750.0 UG/M3, TOTAL 0 (ALL RECEPTORS) **

| Y-COORD (KM) | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| X-COORD (KM) | | | | | | | | | | | | |
| 3206.800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3206.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3205.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3204.400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (KM) | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 |

001082

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 10

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION DAY/HOUR REFERENCES FOR PRIOR TABLE *

| Y-COORD (KM) | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 |
|-------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------|----------------|-------------------------------------------------------------|------------------------------------|---------|---------|-----------|
| 3206.800 | 3020233321166221662219703 | 30021402430805 | 372223922 | 5723225052920518305 | 104231362420702 | 652220506 | 570219904 | 23081640122524 | | | | |
| 3206.700 | 82033020233321166221662219703 | 5623 | 9322 | 372212404 | 5723225052920518305 | 272313624 | 260816902 | 570219904 | 8006164012252413523 | | | |
| 3206.600 | 21401 | 82033020233321196051662219703 | 562330805 | 372211101 | 572322505202022920313624 | 652220506 | 5702 | 800616401225241352332820 | | | | |
| 3206.500 | 1070121401 | 2804 | 820330202196051662219703 | 5623 | 372217223 | 57232250520202104231362418401 | 570219904 | 230828304135233282010501 | | | | |
| 3206.400 | 5523 | 55232140121401 | 8203302023332116622 | 300230805 | 3722 | 572322505186021042313624 | 6522 | 5702 | 80062830413523141012180223405 | | | |
| 3206.300 | 3020430204 | 5523 | 552321401 | 2804302023332116622 | 5623 | 3722 | 9321 | 57231042310423169021990419904164011352310501218022020110503 | | | | |
| 3206.200 | 6022123043020430204 | 55231070121401 | 82033332116622 | 9322 | 37222250510423 | 2723 | 5702 | 5702 | 2308328201050123405105032400432822 | | | |
| 3206.100 | 257012570125701 | 60221230430204 | 552321401 | 28043332116622 | 3722225051042329203199042252422524105012020124004328222400623823 | | | | | | | |
| 3206.000 | 1230112301123012562325701257011230430204 | 552321401333211662230805 | 1042313624 | 5702225241050310503 | 992323823238231840225506 | | | | | | | |
| 3205.900 | 25307253072552416504165041230112301256232570112304 | 552321401 | 37222920316401283042340532822238232550625506175021600121902 | | | | | | | | | |
| 3205.800 | 21606216062160628122281222812228122253072530725307165042570129508 | 1903 | 800624006255062190221902 | 5123 | 5123 | 5123 | 5123 | 5123 | | | | |
| 3205.700 | 300043000430004300043000430004300043000430004 | 5803 | 580334108203223410125822 | 70031270116002 | 2220253062530625306253061590315903 | | | | | | | |
| 3205.600 | 5803 | 5803 | 5803 | 58033410834108341082032220322108012750528906176023272434723104011172314403238061270117102 | 22231600212423 | | | | | | | |
| 3205.500 | 3410834108106012032220322337233290724221278242880610606106063382114124212053280110401104021040427522 | 2221238062380623806 | | | | | | | | | | |
| 3205.400 | 203222032233723329071080124221278241660334101106061060625024141242522132724 | 5407100061040114904 | 520110404275221440323806 | | | | | | | | | |
| 3205.300 | 329071080124221 | 1505278242750517424341011060610606 | 24061170224220 | 642416906 | 540717202 | 930110401 | 782410402 | 52011040427522 | | | | |
| 3205.200 | 24221 | 1505278242750521301341012890610606106061060632721338212590428522 | 252316906 | 5407250021390510401 | 21201040211801 | 9801 | | | | | | |
| 3205.100 | 278242750516603174243410128906106061060610606287021750525904 | 64242020521205 | 2523 | 540717202 | 66021000610401 | 70031490410402 | | | | | | |
| 3205.000 | 1660317424341012124289061060610606106063272117602 | 50414905 | 8706 | 64203252016906 | 5407 | 540725002 | 66021000610401 | 700310323 | | | | |
| 3204.900 | 2880634101106032890610606106061060616304287023490724201259042422025102 | 3242120534723 | 54071720225002 | 6602 | 582410401 | 7003 | | | | | | |
| 3204.800 | 34101 | 5607289061060610606106062502432721 | 21241750533821 | 87062522115304 | 32421205 | 5106 | 5407 | 5407 | 2024 | 9720 | 9301 | 582410401 |
| 3204.700 | 2890610606106061060610606250241660511702349071750525904 | 8706 | 642416905 | 324212051690625822 | 5407 | 540725002 | 6602 | 9301 | 5824 | | | |
| 3204.600 | 106061060610606106061060616605 | 24061760217505 | 50422504279072020516905 | 324325201110434723 | 5407 | 54073280125002 | 660213905 | | | | | |
| 3204.500 | 1060610606106061060616304327211170234907175052420114905242202020516905 | 32432724 | 2523 | 5106 | 5407 | 5407 | 5407 | 202425301 | 6602 | | | |
| 3204.400 | 1060610606106062502416605287021760234907 | 5043382114124252212020516905 | 32432724 | 25231690625822 | 5407 | 54071720225002 | 9720 | | | | | |
| (KM) | 275.300 | 275.500 | 275.700 | 275.900 | 276.100 | 276.300 | 276.500 | 276.700 | 276.900 | 277.100 | 277.300 | 277.500 |

001083

*** ISCST2 - VERSION 93109 ***

*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 11

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE MAXIMUM 25 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): 1_GUN , 2_GUN ,

** CONC OF N-BUTANOL IN MICROGRAMS/M**3

| RANK | CONC | (DayHr) | AT | UTM E | UTM N | TYPE | RANK | CONC | (DayHr) | AT | UTM E | UTM N | TYPE |
|------|--------|----------|----|----------------------|-------|------|------|--------|----------|----|----------------------|-------|------|
| 1. | 214.59 | (1903) | at | (276.600, 3205.800) | | GC | 14. | 176.62 | (9803) | at | (276.700, 3205.700) | | GC |
| 2. | 214.59 | (2309) | at | (276.600, 3205.800) | | GC | 15. | 169.86 | (4409) | at | (276.600, 3205.800) | | GC |
| 3. | 201.68 | (25822) | at | (276.600, 3205.700) | | GC | 16. | 169.81 | (17023) | at | (276.600, 3205.800) | | GC |
| 4. | 201.68 | (34720) | at | (276.600, 3205.700) | | GC | 17. | 169.81 | (18203) | at | (276.600, 3205.800) | | GC |
| 5. | 196.63 | (16303) | at | (276.600, 3205.700) | | GC | 18. | 169.16 | (16902) | at | (276.600, 3205.800) | | GC |
| 6. | 196.63 | (27524) | at | (276.600, 3205.700) | | GC | 19. | 164.01 | (33318) | at | (276.600, 3205.700) | | GC |
| 7. | 193.87 | (7003) | at | (276.700, 3205.700) | | GC | 20. | 163.93 | (34101) | at | (276.600, 3205.700) | | GC |
| 8. | 193.87 | (28507) | at | (276.700, 3205.700) | | GC | 21. | 160.95 | (20506) | at | (276.600, 3205.800) | | GC |
| 9. | 192.66 | (34018) | at | (276.600, 3205.700) | | GC | 22. | 159.06 | (33809) | at | (276.600, 3205.700) | | GC |
| 10. | 188.74 | (2120) | at | (276.700, 3205.700) | | GC | 23. | 159.06 | (34109) | at | (276.600, 3205.700) | | GC |
| 11. | 183.13 | (305) | at | (276.600, 3205.700) | | GC | 24. | 158.91 | (10323) | at | (276.700, 3205.700) | | GC |
| 12. | 177.00 | (34723) | at | (276.600, 3205.700) | | GC | 25. | 156.37 | (5106) | at | (276.600, 3205.700) | | GC |
| 13. | 176.62 | (5106) | at | (276.700, 3205.700) | | GC | | | | | | | |

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

001084

*** ISCST2 - VERSION 93109 *** *** HERCULES MARINE, FREEPORT, TX --- Spray Painting
*** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
*** 23:00:47
PAGE 12

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** Message Summary For ISC2 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*** ISCST2 Finishes Successfully ***

COMPUTER USED: UBM 486 6602 66mh, 256k Cache, 8mb RAM

END TIME: 23:55:26
ELAPSED TIME: .91 HOURS,
OR 54.7 MINUTES
OR 3282. SECONDS

001085

CO STARTING
 TITLEONE HERCULES MARINE, FREEPORT, TX --- Spray Painting
 TITLETWO 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50
 MODELOPT RURAL CONC THRES 750. 4BYTE
 AVERTIME 1
 POLLUTID n-Butanol
 RUNORNOT RUN
 ERRORFIL D:\1-110\ERROR.FIL
 CO FINISHED

SO STARTING
 LOCATION 1_GUN POINT 276.580 3205.753 0. Gun_#_1
 ** Point Source QS HS TS VS DS
 ** Parameters: ----
 SRCPARAM 1_GUN .0396 2.0 32. .001 1.0
 BUILDHGT 1_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
 BUILDHGT 1_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
 BUILDHGT 1_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
 BUILDHGT 1_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
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 BUILDWID 1_GUN 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00
 BUILDWID 1_GUN 60.00 60.00 60.00 60.00

LOCATION 2_GUN POINT 276.655 3205.738 0. Gun_#_2
 SRCPARAM 2_GUN .0396 2.0 32. .001 1.0
 BUILDHGT 2_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
 BUILDHGT 2_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
 BUILDHGT 2_GUN 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
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 BUILDWID 2_GUN 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00
 BUILDWID 2_GUN 60.00 60.00 60.00 60.00

SRCGROUP ALL
 SO FINISHED

RE STARTING
 GRIDCART HMW STA
 GRIDCART HMW XYINC 275.300 24 .1 3204.400 25 .1
 GRIDCART HMW END
 RE FINISHED

ME STARTING
 INPUTFIL D:\METDAT2\IAHLC88.BIN UNIFORM
 ANEMHGT 20 FEET
 SURFDATA 12960 1988 IAH
 UAIRDATA 3937 1988 LAKE CHARLES
 DAYRANGE 1-366
 ME FINISHED

OU STARTING
 RECTABLE ALLAVE FIRST
 MAXTABLE ALLAVE 25
 OU FINISHED

 *** SETUP Finishes Successfully ***

RECEIVED
 OCT 08 1996

PERMITS PROGRAM

001086

*** ISCST2 - VERSION 93109 ***

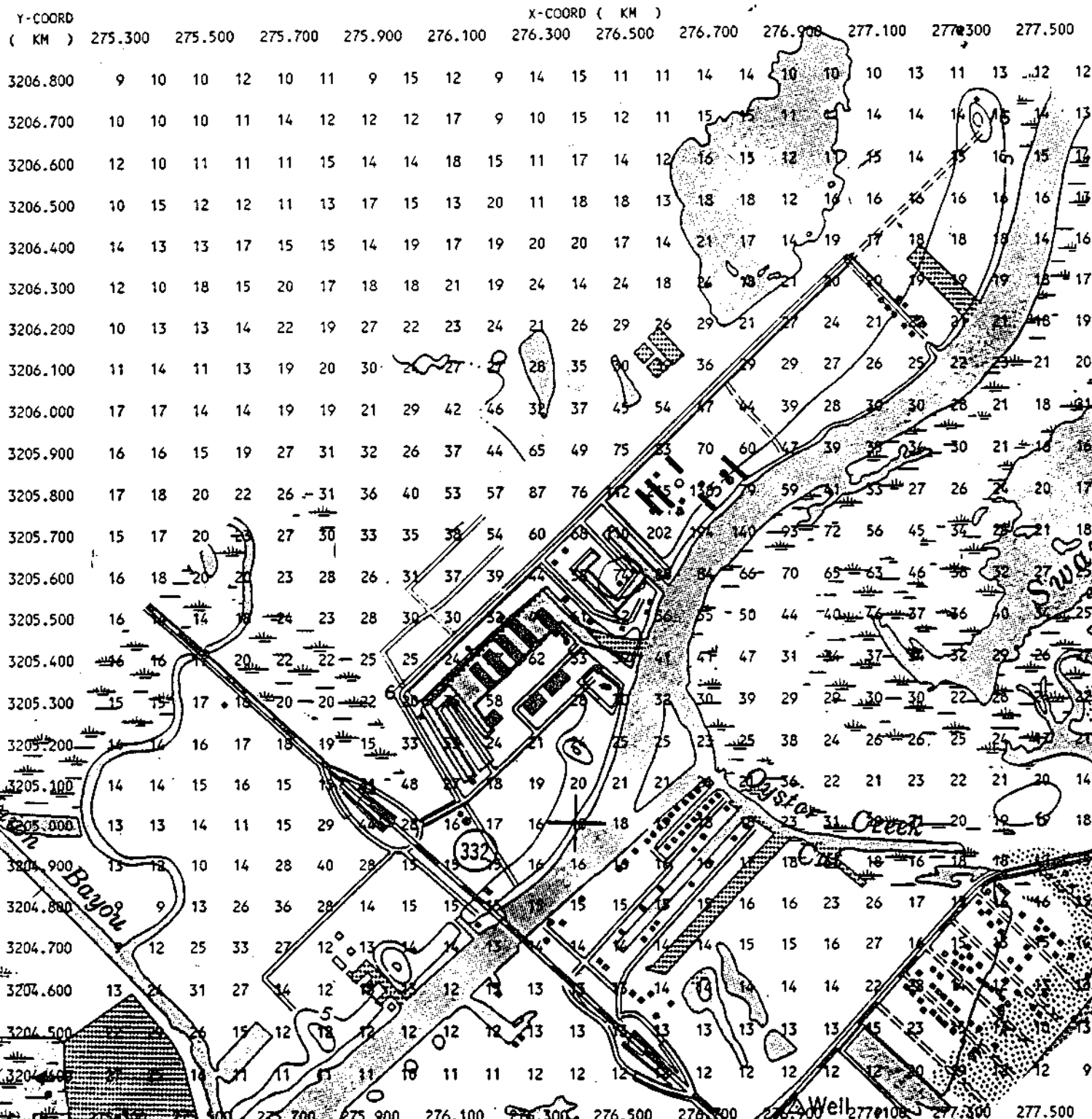
*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 8

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL

** CONC OF N-BUTANOL IN MICROGRAMS/M**3



001087

*** ISCST2 - VERSION 93109 ***

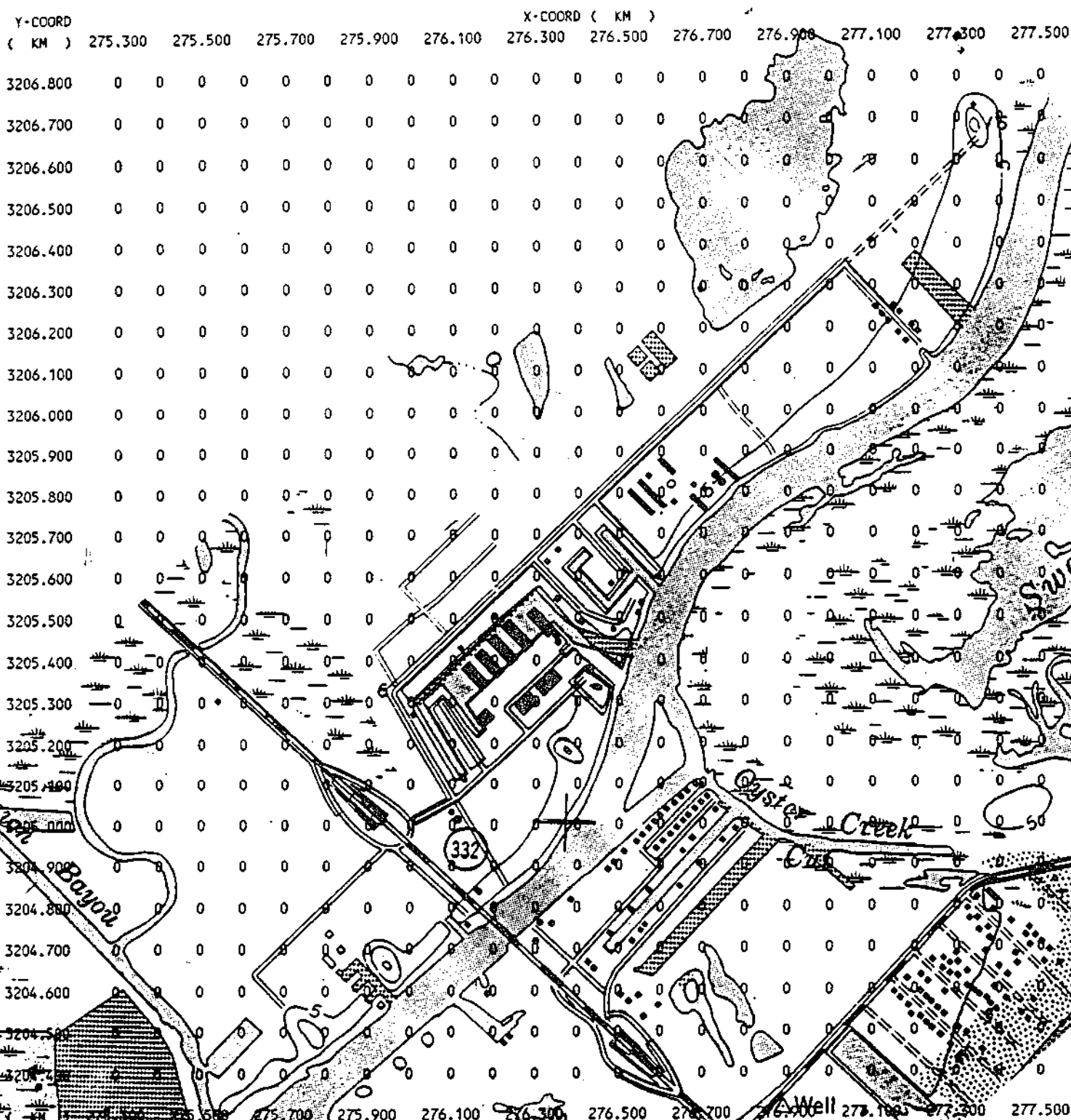
*** HERCULES MARINE, FREEPORT, TX --- Spray Painting
 *** 6 lbs/hr paint VOC, 2 guns, Cathacote Primer 50/50

*** 10/03/96
 *** 23:00:47
 *** PAGE 9

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION COUNT OF VALUES > 750.0 UG/M3 ***

** EXCEEDANCES, OF INPUT THRESHOLD OF 750.0 UG/M3, TOTAL 0 (ALL RECEPTORS) **



001088

EFFECTIVE DATE: 09/19/95

FORMULA REFERENCE NO.: 16-121875-14

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 369B3501
 NAME: DEYTHANE 369 ALIPHATIC URETHANE GLOSS ENAMEL WHITE BASE

MANUFACTURER: DEVON COATINGS COMPANY
 4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
 EMERGENCY TELEPHONE: 800-424-9300 (CHENTREC)
 TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|-------------------------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| ACRYLIC RESIN | 30 | NA | NE | NE | | NA |
| N-BUTYL ACETATE | 10 | 123-86-4 | 150 | 150 | X | 13 |
| PROPYLENE GLYCOL MONOMETHYLETHYER ACETATE | 20 | 108-65-6 | NE | NE | | 3.7 |
| TITANIUM DIOXIDE | 35 | 13463-67-7 | D | DD | | NA |
| XYLENE | <5 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DD-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED USE STODDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 311, c-CHERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 252 - 266 DEGREES F POUNDS PER GALLON: 11.59 VAPOR DENSITY: [X] HEAVIER [] LIGHTER THAN AIR
 PERCENT VOLATILES BY VOLUME: 49.69 CALCULATED VOC: 459.94 GM/L EVAPORATION RATE: [] FASTER [X] SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

FLASH POINT (Sataflamh): 80F

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

LEL: 1

FLAMMABLE LIQUID - CLASS IC

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY [X] SKIN [X] BREATHING [X] SWALLOWING

SECTION V Continued on Next Page

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EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

N-BUTYL ACETATE

LD50: 14 GM/KG (RAT, ORAL)

LC50: 160 PPM (RAT, 4 HRS.)

PROPYLENE GLYCOL MONOMETHYLETHYER ACETATE

LD50: 8.5 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

TITANIUM DIOXIDE

LD50: >24000 MG/KG (RATS)

LC50: NO DATA AVAILABLE

XYLENE

LD50: >5 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-ss-2 TOLUENE

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IF MATERIAL IS SPILLED**

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION**RESPIRATORY PROTECTION**

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks and flames. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

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PERMITS PROGRAM

EFFECTIVE DATE: 09/19/95

MATERIAL SAFETY DATA SHEET
MATERIAL REFERENCE NO.: 16-280E158-14

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 369C0910
NAME: DEVTHANE 369 CLEAR CONVERTERMANUFACTURER: DEVCO COATINGS COMPANY
4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
EMERGENCY TELEPHONE: 800-424-9300 (CHENTREC)
TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|--------------------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| N-BUTYL ACETATE | 15 | 123-86-4 | 150 | 150 | X | 13 |
| POLYMERIC HEXAMETHYLENE DIISOCYANATE | 75 | 28182-81-2 | 0.005 | NE | | <0.01 |
| XYLENE | 15 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DO-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED USE STODDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 252 - 279 DEGREES F POUNDS PER GALLON: 8.7 VAPOR DENSITY: [X] HEAVIER [] LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 30 CALCULATED VOC: 260.86 GM/L EVAPORATION RATE: [] FASTER [X] SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

FLAMMABLE LIQUID - CLASS IC

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, foam, or other National Fire Protections Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

May cause allergic reaction. Overexposure may cause permanent lung damage.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VII).

DO NOT USE if you have lung or breathing problems or prior reaction to isocyanates.

PRIMARY ROUTE(S) OF ENTRY [X] SKIN [X] BREATHING [X] SWALLOWING

SECTION V Continued on Next Page

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EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

N-BUTYL ACETATE

LD50: 14 GM/KG (RAT, ORAL)

LC50: 160 PPM (RAT, 4 HRS.)

POLYMERIC HEXAMETHYLENE DIISOCYANATE

LD50: 10 GM/KG (RAT, ORAL)

LC50: 137-1150 MG/M3 (RAT, 4 HRS)

XYLENE

LD50: >5 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

100-88-3

TOLUENE

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide,

, oxides of nitrogen.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution informations in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

Wear a properly fitted airline respirator (NIOSH/MSHA approved) during and after application unless monitoring demonstrates vapor, mist and particulate levels are below applicable limits. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and flames. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001092

EFFECTIVE DATE: 09/19/96

FORMULA REFERENCE NO.: 16-518E160-12

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 30280250
 NAME: CATHA-COAT 302 REINFORCED INORGANIC ZINC PRIMER - GREEN BASE

MANUFACTURER: DEVOR COATINGS COMPANY
 4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
 EMERGENCY TELEPHONE: 800-424-9300 (CHEMTREC)
 TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|----------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| BARIUM SULFATE | <5 | 7727-43-7 | D | NE | | NA |
| CEMENT | 15 | 65997-15-1 | D | NE | | NA |
| CYCLOHEXANONE | <5 | 108-94-1 | 25 | 25 | X | 2 |
| EPOXY RESIN | 10 | 25068-38-6 | NE | NE | | NA |
| METHYL N-AMYL KETONE | 10 | 110-42-0 | 50 | 100 | | 2.14 |
| N-BUTYL ALCOHOL | <5 | 71-36-3 | 50 (CL) | 50 (CL) | X X | 4.2 |
| ZINC | 50 | 7440-66-6 | D | DD | | NA |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DD-INERT OR NOISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED USE STODDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 244 - 313 DEGREES F POUNDS PER GALLON: 18.2 VAPOR DENSITY: [X] HEAVIER [] LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 48.74 CALCULATED VOC: 423.02 GM/L EVAPORATION RATE: [] FASTER [X] SLOWER THAN WATER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

FLASH POINT (Setaflash): 80F

LEL: 1

FLAMMABLE LIQUID - CLASS IC

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protection Association (NFPA) approved method for treating a Class B fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Zinc oxide fume may result from combustion. TLV and PEL for ZnO fume is 1 MG/M3.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY [X] SKIN [X] BREATHING [X] SWALLOWING

SECTION V Continued on Next Page

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PERMITS PROGRAM

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

CYCLOHEXANONE

LD50: 1.62 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

METHYL N-AMYL KETONE

LD50: 1600 MG/KG (RAT, ORAL)

LC50: 2000-4000 PPM (RAT, 4 HRS)

N-BUTYL ALCOHOL

LD50: 2.5 GM/KG (ORAL, RAT)

LC50: 8000 PPM (4 HR, RAT)

WARNING: This product contains a chemical known to the State of California to cause cancer.

106-89-8

SPICHLOROMYDRIN

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide,

, zinc compounds.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IF MATERIAL IS SPILLED**

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION**RESPIRATORY PROTECTION**

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks and flames. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001094

EFFECTIVE DATE: 09/19/95

FORMULA REFERENCE NO.: 16-280E169-10

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 302C0910
 NAME: CATHA-COAT 302 REINFORCED INORGANIC ZINC PRIMER - CLEAR CONVERTER

MANUFACTURER: DEVCOE COATINGS COMPANY
 4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
 EMERGENCY TELEPHONE: 800-424-9300 (CHEMTREC)
 TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|--------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| METHYL N-AMYL KETONE | 10 | 110-43-0 | 50 | 100 | | 2.14 |
| MODIFIED ALIPHATIC AMINE | 5 | NA | NE | NE | | <1 |
| N-BUTYL ALCOHOL | 30 | 71-36-3 | 50 (CL) | 50 (CL) | X X | 4.2 |
| POLYAMIDE RESIN | 20 | 68082-29-1 | NE | NE | | <1 |
| XYLENE | 35 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DO-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED USE STANDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 244 - 300 DEGREES F POUNDS PER GALLON: 7.19 VAPOR DENSITY: X HEAVIER | LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 78.44 CALCULATED VOC: 654.87 GM/L EVAPORATION RATE: FASTER | SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

FLASH POINT (Setaflash): 80F

FLAMMABLE LIQUID - CLASS IC

LEL: .8

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, foam, or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY | X | SKIN | X | BREATHING | X | SWALLOWING

SECTION V Continued on Next Page

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

METHYL N-AMYL KETONE

LD50: 1600 MG/KG (RAT, ORAL)

LC50: 2000-4000 PPM (RAT, 4 HRS)

N-BUTYL ALCOHOL

LD50: 2.5 GM/KG (ORAL, RAT)

LC50: 8000 PPM (4 HR, RAT)

POLYAMIDE RESIN

LD50: 8 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

XYLENE

LD50: >5 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3 TOLUENE

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide.

, oxides of nitrogen.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution informations in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and flames. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001096

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 23081501
NAME: DEVTRAN 230 HIGH BUILD EPOXY COATING WHITE BASE

MANUFACTURER: DEVON COATINGS COMPANY
4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
EMERGENCY TELEPHONE: 800-424-9200 (CHENTREC)
TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|-----------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| CRYSTALLINE SILICA [PC] | <.5 | 14808-60-7 | 0.1 MG/M3 (RESP) | 0.1 MG/M3 (RESP) | | NA |
| EPOXY RESIN | 20 | 25068-28-6 | NE | NE | | NA |
| HIGH FLASH AROMATIC NAPHTHA | 10 | 64742-95-6 | 100 | NE | X | 10 |
| HYDROCARBON RESIN | 15 | 64742-16-1 | NE | NE | | NA |
| MAGNESIUM SILICATE | 15 | 14807-96-6 | 2MG/M3 (RESP) | 2 MG/M3 (RESP) | | NA |
| METHYL N-AMYL KETONE | <.5 | 110-43-0 | 50 | 100 | | 2.14 |
| MICA | 15 | 12001-26-2 | 3 MG/M3 (RESP) | 20 MPPCF | | NA |
| N-BUTYL ALCOHOL | 10 | 71-36-3 | 50 (CL) | 50 (CL) | X X | 4.2 |
| TITANIUM DIOXIDE | 15 | 13463-67-7 | D | DD | | NA |
| XYLENE | <.5 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product contains ingredients considered potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA. For details see Section V - IX (Health Hazard Data).

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLES TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, [PC]-POTENTIAL CARCINOGEN, DD-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED US\$ STODDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 144 - 306 DEGREES F POUNDS PER GALLON: 11.75 VAPOR DENSITY: [X] HEAVIER [] LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 34.89 CALCULATED VOC: 291.25 GM/L EVAPORATION RATE: [] FASTER [X] SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

COMBUSTIBLE LIQUID - CLASS II

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protections Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

Silica is listed with IARC as a class 2A carcinogen. Contains crystalline silica which can cause lung damage and cancer. Risk depends on duration and level of exposure.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY [X] SKIN [X] BREATHING [X] SWALLOWING

SECTION V Continued on Next Page

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

| | | |
|-----------------------------|------------------------------|----------------------------------|
| EPOXY RESIN | LD50: >10 GM/KG (RAT, ORAL) | LC50: NO DATA AVAILABLE |
| HIGH FLASH AROMATIC NAPHTHA | LD50: >5 GM/KG (RAT, ORAL) | LC50: >3670 PPM (RAT, 8 HRS) |
| METHYL N-AMYL KETONE | LD50: 1600 MG/KG (RAT, ORAL) | LC50: 2000-4000 PPM (RAT, 4 HRS) |
| N-BUTYL ALCOHOL | LD50: 2.5 GM/KG (ORAL, RAT) | LC50: 8000 PPM (4 HR, RAT) |
| TITANIUM DIOXIDE | LD50: >24000 MG/KG (RATS) | LC50: NO DATA AVAILABLE |
| XYLENE | LD50: >5 GM/KG (RAT, ORAL) | LC50: NO DATA AVAILABLE |

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

102-88-3 TOLUENE

WARNING: This product contains a chemical known to the State of California to cause cancer.

14808-60-7 CRYSTALLINE SILICA (PC)

71-43-2 BENZENE

106-93-8 EPICHLOROHYDRIN

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and flames. Do not smoke. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001098

EFFECTIVE DATE: 09/19/95

FOR: REFERENCE NO.: 16-280E135-17

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 230C0910
 NAME: DEVTRAN 230 HIGH BUILD EPOXY COATING, CLEAR CONVERTER

MANUFACTURER: DEVCO COATINGS COMPANY
 4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
 EMERGENCY TELEPHONE: 800-424-9300 (CHEMTREC)
 TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|-----------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| HIGH FLASH AROMATIC NAPHTHA | 15 | 64742-95-6 | 100 | NE | X | 10 |
| METHYL N-AMYL KETONE | <5 | 110-43-0 | 50 | 100 | | 2.14 |
| N-BUTYL ALCOHOL | 15 | 71-36-3 | 50 (CL) | 50 (CL) | X X | 4.2 |
| PHENOLIC COMPOUND | 15 | NA | NE | NE | X | NA |
| POLYAMIDE RESIN | 50 | 68071-65-8 | NE | NE | | <1 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DD-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED USE STANDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 244 - 428 DEGREES F POUNDS PER GALLON: 7.83 VAPOR DENSITY: ☒ HEAVIER ☐ LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 39.5 CALCULATED VOC: 329.91 GM/L EVAPORATION RATE: ☒ FASTER ☒ SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

FLASH POINT (Setflash): 100F

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

LEL: 1

COMBUSTIBLE LIQUID - CLASS II

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protections Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY ☒ SKIN ☒ BREATHING ☒ SWALLOWING

SECTION V Continued on Next Page

001099

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

HIGH FLASH AROMATIC NAPHTHA

LD50: >5 GM/KG (RAT, ORAL)

LC50: >3670 PPM (RAT, 8 HRS)

METHYL N-AMYL KETONE

LD50: 1600 MG/KG (RAT, ORAL)

LC50: 2000-4000 PPM (RAT, 4 HRS)

N-BUTYL ALCOHOL

LD50: 2.5 GM/KG (ORAL, RAT)

LC50: 8000 PPM (4 HR, RAT)

PHENOLIC COMPOUND

LD50: 4100 MG/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide.

, oxides of nitrogen.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution informations in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and flames. Do not smoke. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

RECEIVED

OCT 08 1996

PERMITS PROGRAM

001100

EFFECTIVE DATE: 09/19/95

FORMULA REFERENCE NO.: 16-121844-19

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 229B3501
 NAME: DEVON 229 ACRYLIC EPOXY GLOSS COATING - WHITE BASE

MANUFACTURER: DEVON COATINGS COMPANY
 4000 DUPONT CIRCLE, LOUISVILLE, KY 40267
 EMERGENCY TELEPHONE: 800-424-9200 (CHEMTREC)
 TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|-------------------------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| ACRYLIC RESIN | 20 | NA | NE | NE | | NA |
| EPOXY RESIN | 10 | 28068-38-6 | NE | NE | | NA |
| HIGH FLASH AROMATIC NAPHTHA | 15 | 64742-95-6 | 100 | NE | X | 10 |
| METHYL N-AMYL KETONE | <5 | 110-43-0 | 50 | 100 | | 2.14 |
| N-BUTYL ALCOHOL | <5 | 71-36-3 | 50 (CL) | 50 (CL) | X X | 4.2 |
| PROPYLENE GLYCOL MONOMETHYLETHYLE ACETATE | 15 | 108-65-6 | NE | NE | | 3.7 |
| TITANIUM DIOXIDE | 30 | 13463-67-7 | D | 20 | | NA |
| XYLENE | <5 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3
 TOTAL DUST, (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DD-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED
 USE STODDARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 311, c-CERCLA 103a

SECTION III - PHYSICAL DATA

BOILING RANGE: 244 - 206 DEGREES F POUNDS PER GALLON: 10.46 VAPOR DENSITY: |X| HEAVIER | | LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 57.29 CALCULATED VOC: 504.67 GM/L EVAPORATION RATE: | | FASTER |X| SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

FLASH POINT (Setflash): 80F

LEL: 1

FLAMMABLE LIQUID - CLASS IC

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY | X | SKIN | X | BREATHING | X | SWALLOWING

SECTION V Continued on Next Page

001101

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

| | | |
|------------------------------------------|------------------------------|----------------------------------|
| HIGH FLASH AROMATIC NAPHTHA | LD50: >5 GM/KG (RAT, ORAL) | LC50: >3670 PPM (RAT, 8 HRS) |
| METHYL N-AMYL KETONE | LD50: 1600 MG/KG (RAT, ORAL) | LC50: 2000-4000 PPM (RAT, 4 HRS) |
| N-BUTYL ALCOHOL | LD50: 2.5 GM/KG (ORAL, RAT) | LC50: 8000 PPM (4 HR, RAT) |
| PROPYLENE GLYCOL MONOMETHYLETHYL ACETATE | LD50: 8.5 GM/KG (RAT, ORAL) | LC50: NO DATA AVAILABLE |
| TITANIUM DIOXIDE | LD50: >24000 MG/KG (RATS) | LC50: NO DATA AVAILABLE |
| XYLENE | LD50: >5 GM/KG (RAT, ORAL) | LC50: NO DATA AVAILABLE |

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3 TOLUENE

WARNING: This product contains a chemical known to the State of California to cause cancer.
106-89-8 EPICHLOROHYDRIN

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filter designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or use hoods. Use NIOSH/MSHA approved respirator when flame cutting, welding, brazing and sanding material coated with this product.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas and to remove sanding dusts of dried coatings and decomposition products during welding and flame cutting on surfaces coated with this product. Vapors may spread long distances. Prevent build-up by removing heavy solvent vapors from lower levels of the work area. Eliminate all ignition sources.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent skin contact are recommended.

EYE PROTECTION: Do not get in eyes. Solvent resistant safety eyewear with splash guards or side shields is recommended.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating or smoking.

SECTION IX - OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and flames. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120 degrees F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. If this material is part of a two component product, then the mixture of base and converter portions will have hazards of both components. Observe all applicable precautions.

Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001102

EFFECTIVE DATE: 09/19/95

FORMULA REFERENCE NO.: 16-280E139-08

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 229CD910
NAME: DEVTRAN 229 CLEAR CONVERTERMANUFACTURER: DEVCO COATINGS COMPANY
4000 DUPONT CIRCLE, LOUISVILLE, KY 40207
EMERGENCY TELEPHONE: 800-424-9300 (CENTREC)
TELEPHONE: 502-897-9861

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCT. BY WT. | CAS NO. | ACGIH TLV (PPM) | OSHA PEL (PPM) | HAZARDOUS a b c | VAPOR (2) PRESSURE |
|-----------------------------|------------------|------------|--------------------|-------------------|--------------------|-----------------------|
| HIGH FLASH AROMATIC NAPHTHA | 20 | 64742-95-6 | 100 | NE | X | 10 |
| PHENOLIC COMPOUND | 10 | NA | NE | NE | | <29 271F |
| POLYAMIDE RESIN | 30 | 68082-29-1 | NE | NE | | <1 |
| XYLENE | 40 | 1330-20-7 | 100 | 100 | X X | 6 |

NOTE: This product does not contain ingredients considered carcinogens or potential carcinogens by ACGIH, Federal OSHA, NTP, IARC, or CAL/OSHA.

ABBREVIATIONS: NE-NOT ESTABLISHED, NA-NOT APPLICABLE/NOT AVAILABLE, (CL)-CEILING LIMIT, D-NUISANCE PARTICLE TLV 10 MG/M3
TOTAL DUST (C)-CARCINOGEN, (PC)-POTENTIAL CARCINOGEN, DD-INERT OR NUISANCE DUST PEL 15 MG/M3 TOTAL DUST, (1) NOT ESTABLISHED
USE STODARD SOLVENT AS A GUIDE, (2) mm Hg. X - HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103s

SECTION III - PHYSICAL DATA

BOILING RANGE: 279 - 541 DEGREES F POUNDS PER GALLON: 7.56 VAPOR DENSITY: [X] HEAVIER [] LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 59.71 CALCULATED VOC: 516.76 GM/L EVAPORATION RATE: [X] FASTER [X] SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA CLASSIFICATION 29 CFR 1910.106 (a) PARTS 18-19.

FLAMMABLE LIQUID - CLASS 1C

EXTINGUISHING MEDIA

In case of fire use CO2 Dry Chemical, Foam, or other National Fire Protections Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Summon professional firefighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

ACUTE BREATHING: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

SKIN OR EYE CONTACT: Causes eye and skin irritation. May be harmful if absorbed through the skin.

SWALLOWING: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea.

CHRONIC Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

None, when used in accordance with safe handling and use information (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY [X] SKIN [X] BREATHING [X] SWALLOWING

SECTION V Continued on Next Page

001103

EMERGENCY AND FIRST AID PROCEDURES

IF BREATHED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

IF IN EYES: Flush immediately with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Wash affected areas with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.

IF SWALLOWED: Consult a physician immediately.

DO NOT INDUCE VOMITING. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

NOTICE: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

OTHER TOXICITY DATA:

HIGH FLASH AROMATIC NAPHTHA

LD50: >5 GM/KG (RAT, ORAL)

LC50: >3670 PPM (RAT, 8 HRS)

PHENOLIC COMPOUND

LD50: 1.62 G/KG (RAT, ORAL)

LC50: > 2 MG/L (RAT)

POLYAMIDE RESIN

LD50: 8 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

XYLENE

LD50: >5 GM/KG (RAT, ORAL)

LC50: NO DATA AVAILABLE

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

108-88-3

TOLUENE

SECTION VI - REACTIVITY DATA

STABILITY: | | Unstable | X | Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS - DECOMPOSITION PRODUCTS

May cause toxic fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide,

, oxides of nitrogen.

HAZARDOUS POLYMERIZATION | | May occur | X | Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED

Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Prevent breathing of vapors. Ventilate area. Before attempting clean-up, refer to hazard caution informations in other sections of this material safety data sheet. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION

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OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent skin contact are recommended.

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Information herein is given in good faith but no warranty, expressed or implied is made. Consult Devco Coatings Company for further information.

001104

H.M. WALKER & ASSOCIATES, Inc.

— Environmental Consultants

3321 East Bayou Drive
Dickinson, Texas 77539
Telephone: (713) 337-1177

August 26, 1996

Ms. K.C. Hauer
Chemical Section, Permits Section
TNRCC
P.O. Box 13087
Austin, TX 78711-3087

Re: Your letter to T.E. Hord, Hercules; 8/19/96

Dear Ms. Hauer:

You raise three significant points in your letter. My responses follow:

MSDS sheets: When this application was originally submitted in May 1994 approximately 200 pages of typical MSDS sheets were attached. These should be available from TNRCC's old files on this permit. We do have one set of copies of these sheets but hesitate to undertake the major job of copying them if the original set can be found or you are sufficiently familiar with the class of surface coatings used that the sheets are not needed.

All of the sheets deal with 2-component urethane or epoxy systems which should be quite familiar to you. A list of their names and numbers can be supplied readily.

Today, I placed a call to you. When you call back we can probably get this worked out before you even see this letter.

Fraction airborne from Black Beauty: The only reference which known on this point is a letter from R.J. Thompson to J. Newcaster dated 12/1/81. I am sending you a copy which includes a page of "how to use this" from my source. This should answer your question.

BACT for sandblasting was not addressed: I apologize for not fully addressing this under the section BACT -SANDBLASTING/PAINTING. Hercules proposals on this subject were included on pages 2 and 3 in the section "Description of Processes" in the back section of the report. In this section Hercules (1) promises to use "Black Grit" for all major sandblasting operations, and (2) to erect a 300' long x 22' high curtain along the west side of the property. These actions should satisfy your point 3.

RECEIVED

SEP 11 1996

Sincerely,

Harry M. Walker

Harry M. Walker, Ph.D.
Environmental Consultant

PERMITS PROGRAM

001105

MATERIAL SAFETY DATA SHEET

** ABRADE-AWAY® **

Premium Coal Slag

PHYSICAL CHARACTERISTICS

Boller slag is a granular material, composed of inorganic oxides, that is basically inert in nature. It is a shiny black color, odorless and resembles crushed coal or black glass. It is formed as the combustion by-product of burning coal in industrial furnaces. Boiling point, vapor pressure, vapor density, percent volatiles and evaporation rate do not apply to this solid material.

| | |
|------------------------------------------|--------------------|
| Resistance to Abrasion Test Data | 30.8 Percent Wear |
| Unit Weight Test Data - Dry Rodded Basis | 100.5 Lbs./Cu. Ft. |
| Water Absorption Test Data | .95 Percent |
| Bulk Specific Gravity Test Data | 2.598 |

HEALTH HAZARD INFORMATION

Boller slag is primarily composed of inert dusts (irritants to mucous membranes) with low concentrations of crystalline silica (a pneumoconiosis producing dust), and calcium oxide (an irritant to mucous membranes and wet skin). The primary routes of entry are through the respiratory system, eyes and skin. There is no evidence of carcinogenicity.

Under certain conditions, such as handling in confined areas, trace metal oxides may exceed the OSHA permissible exposure levels (PELS) and require personal protective equipment. Do not create unnecessary airborne dust when handling. If airborne dust exposure approaches the PEL or TLV (see Regulatory Levels) provide NIOSH approved, air supplied full facepiece, hood or helmet respirators and adequate ventilation.

Over-exposure may result in irritation to eyes, skin or the respiratory tract. Persistent exposure to airborne dust may decrease pulmonary functions. Wetting with water will reduce airborne dust concentrations.

OSHA REGULATORY LEVELS

The PEL for crystalline silica is (10 mg per cubic meter)/(% of crystalline silica + 2).

The TLV for crystalline silica is 0.1 mg per cubic meter.

TCLP METHOD 1310 (Heavy metals)

| | Result | Spike Recovery % | Regulatory Limit (mg/l) |
|----------|--------|------------------|-------------------------|
| Arsenic | <0.05 | 100 | 5.0 |
| Barium | 0.37 | 81 | 100.0 |
| Cadmium | <0.05 | 91 | 1.0 |
| Chromium | <0.05 | 88 | 5.0 |
| Lead | <0.1 | 90 | 5.0 |
| Mercury | <0.02 | 112 | 0.2 |
| Selenium | <0.2 | 100 | 1.0 |
| Silver | <0.05 | 87 | 5.0 |
| Copper | <0.05 | -- | -- |
| Nickel | <0.05 | -- | -- |
| Zinc | 0.21 | -- | -- |

Specialty Sand Company

P. O. Box 9877

Houston, Texas 77213

713-456-9553

001106

COAL SLAG IDENTIFICATION

| | <u>Percent</u> |
|-----------------------------|----------------|
| Silica | 53.39 |
| Iron Oxide | 18.10 |
| Aluminum Oxide | 22.64 |
| Calcium Oxide | 3.83 |
| Magnesium Oxide | 0.98 |
| Sulfur Oxide | 0.06 |
| Titanium Dioxide | 0.91 |
| Phosphorus Pentoxide | 0.10 |
| Manganese Oxide | 0.04 |
| Sodium Oxide | 2.69 |
| Potassium Oxide | 4.38 |
| pH (1:1 in Deionized Water) | 8.82 |

Test Method: ASTM D-3882 Modified*

*Silicon was determined gravimetrically, the remainder by ICP.

FIRST AID PROCEDURES

Eye contact -- Flush with water.

Skin irritation -- Wash with soap and water.

Inhalation -- Move affected person(s) to fresh air.

Oral intake -- Rinse mouth out with water.

Consult a physician if irritation persists.

PERSONAL PROTECTIVE EQUIPMENT

| | <u>During Normal Handling</u> | <u>During Blasting</u> |
|-------------|-----------------------------------------|---------------------------|
| Eyes | Safety glasses Remove contact lenses | Tight fitting goggles |
| Clothing | Normal work clothing | Normal work clothing |
| Respiratory | Respirator not necessary | NIOSH approved respirator |
| Hands/Skin | Protective gloves | Protective gloves |

FIRE AND EXPLOSION HAZARDS

Boiler slag is non-flammable and non-explosive. Flash point, flammable limits, extinguishing media, special fire fighting procedures and fire and explosion hazards are not applicable to this material.

ENVIRONMENTAL WASTE HANDLING PROCEDURES

1. This material is not defined as a hazardous material or hazardous waste under federal or state regulations.
2. May be handled as unregulated waste. Dispose of using normal trash/garbage contractor.
3. Bury in approved landfill according to EPA and RCRA regulations.
4. Carefully follow all disposal regulations (EPA, RCRA).
5. Materials used as blasting abrasives may need to be disposed as a special waste. Consult your state's Department of Natural Resources.

001107

Section V — Reactivity Data

| | | | | |
|-----------|----------|---|-----|----------|
| Stability | Unstable | | Cor | to Avoid |
| | Stable | X | | None |

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition or Byproducts Shattering of sand particles such as in sand blasting operations will produce a dust with a high respirable silica content

| | | | |
|--------------------------|----------------|---|---------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will Not Occur | X | None |

Section VI — Health Hazard Data

| | | | |
|--------------------|-------------|-------|------------|
| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
| | Yes | No | No |

Health Hazards (Acute and Chronic)

(1) ACUTE—Congestion of nasal passages and respiratory system.

(2) CHRONIC—Excessive exposure by inhalation of respiratory size particles (less than 5µm) over an extended period of time may result in the development of silicosis.

| | | | |
|------------------|------|------------------|-----------------|
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| None | No | No | No |

Signs and Symptoms of Exposure

None

Medical Conditions

Generally Aggravated by Exposure Respiratory disorders or diseases may be aggravated by exposure.

Emergency and First Aid Procedures

Remove from exposure. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Consult a physician.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Clean up of spills may require personal protective equipment to prevent dust exposure.

(See Section VIII)

Waste Disposal Method If this material, as provided by the manufacturer, becomes a waste, it does not meet the criteria of a hazardous waste as defined by the EPA under the authority of the

Resource Conservation and Recovery Act (40 CFR261)

Precautions to Be Taken in Handling and Storing

Should be stored in a manner to prevent accumulations of airborne dust.

Other Precautions

None

Section VIII — Control Measures

Respiratory Protection (Specify Type) Respiratory protective equipment approved by the Bureau of Mines, US Dept of the Interior (see 30CFR Part II) for protection against dust during abrasive blasting.

| | | |
|-------------|------------------------------------|---------|
| Ventilation | Local Exhaust | Special |
| | To maintain exposure below TLV/PEL | None |
| | Mechanical (General) | Other |
| | To maintain exposure below TLV/PEL | None |

Protective Gloves To protect from abrasion

Eye Protection Safety glasses, goggles, or face shield when necessary, to prevent eye injury.

Other Protective Clothing or Equipment

Work/Hygiene Practices

Clean personal protective equipment as recommended by the manufacturers.

001108

TO: John Newcaster
 FROM: R. J. Thompson
 SUBJECT: Estimated Emissions from Blasting at DSI

This letter summarizes our effort to estimate emissions from the current sand-blasting operations compared to emissions that would result from conversion to Black Beauty or some other synthetic blasting grit. These estimates are based on blasting tests performed at Middletown Research, particle size distributions of the grit after use, and calculations of particulate transport under meteorological conditions typical of the Houston area.

Blast tests were performed on both #3 sand (current grit) and Black Beauty (proposed grit) as received from local suppliers in the Houston area. The tests were performed in a blast cabinet specifically designed and constructed for this purpose. The cabinet consisted of a 55-gallon drum with a $\frac{1}{4}$ inch steel impingement plate welded inside the drum at a 45° angle to the vertical. The cylindrical drum was placed in an upright position with a standard blast nozzle inserted horizontally through a two-inch hole in the side of the drum. The blast nozzle, located about 6 inches from the center of the impingement plate, was operated at about 80 psi air pressure. The grit impinged on the plate at a 45° angle and fell to the bottom of the drum. On the back side of the impingement plate, opposite the blast nozzle, a vacuum cleaner hose was inserted through the side of the drum to evacuate the blast air and dust. The tests were performed with the lid sealed on the drum. Following each test, the spent grit on the bottom of the drum and the dust collected in the vacuum cleaner bag were sized by standard sieving techniques (U.S. Sieve sizes 20, 40, 60, 100, and 200). The size distribution of the minus 200 mesh material was determined by settling velocity in a sediment. Following are the results of these tests.

| <u>Houston #3 Sand</u> | | | <u>Black Beauty</u> | |
|------------------------|---------------------|-----------------|---------------------|-----------------|
| Grit Used | 10,604 grams | | 5,931 grams | |
| Filter Catch | 170 " | | 146 " | |
| Sp. Gr. | 2.63 | | 2.90 | |
| Particle Size | <u>Spent Grit %</u> | <u>Filter %</u> | <u>Spent Grit %</u> | <u>Filter %</u> |
| U. S. Sieve/microns | | | | |
| 20/840 | 24.9 | - | 41.6 | - |
| 40/420 | 76.0 | - | 87.9 | - |
| 60/250 | 91.6 | - | 96.2 | 51.4 |
| 100/149 | 97.1 | 41.5 | 98.7 | 73.3 |
| 200/74 | 99.0 | 59.3 | 99.6 | 84.6 |
| - / 60 | 99.2 | 60.5 | 99.6 | 84.9 |
| - / 50 | 99.3 | 63.0 | 99.7 | 86.0 |
| - / 40 | 99.6 | 67.0 | 99.8 | 87.8 |
| - / 30 | 99.8 | 72.7 | 99.9 | 90.5 |
| - / 20 | 99.9 | 81.7 | 100.0 | 93.8 |
| - / 15 | 100.0 | 86.2 | 100.0 | 95.7 |
| - / 10 | 100.0 | 91.5 | 100.0 | 97.5 |

Airborne % 1.60 - - - 2.46 001109

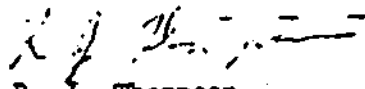
With the above particle size distribution, the weight of particulates generated at various sizes was calculated as follows:

| Particle Size (microns) | Particulates Generated #/Ton and Tons/Year* | |
|-------------------------|---------------------------------------------|--------------|
| | Houston #3 Sand | Black Beauty |
| < 30 | 12.7 | 6.6 |
| < 40 | 18.4 | 9.9 |
| < 50 | 25.6 | 12.7 |
| < 60 | 28.4 | 15.2 |
| < 74 | 32.7 | 15.4 |
| < 149 | 75.8 | 38.5 |
| < 250 | 165.3 | 98.0 |

*Basis of Tons/Year is the use of 2000 Tons/Year of grit at Conroe.

The next step in this emissions estimate was to determine the transport distance of various size particles under typical meteorological conditions. These distances were calculated by using equations developed by Midwest Research Institute and published in an EPA publication MRI/EPA 450/3-76-003 dated January, 1976. The actual calculations are attached. In general, it was assumed that the particulates originate at a height of 10 feet and are transported by a wind velocity of 11.8 mph, the long-term average wind speed in the Houston area. As can be seen from these calculations, particles 100 microns in diameter and larger will be transported 50 feet or less. Particles which are 75 microns or smaller can be transported 80 feet or more.

Based on these calculations, it is estimated that only particles smaller than 75 microns will be transported beyond the property line. Referring to the previous table, the estimated emissions passing the property line are 33 tons/year using the current #3 sand and 15 tons/year using the proposed Black Beauty. The conversion to Black Beauty would therefore result in an emission reduction of 18 tons/year or about 50 percent.


R. J. Thompson
Supervising Project Engineer
Environmental Engineering

RJT/br

cc: Joe Lees

17 NOV 93

MLC1

~~XXXXXXXXXX~~
HERE IS HOW TO USE THE RESULTS.

SILICA SAND

10,604 GRAMS SAND USED

170 GRAMS IN THE FILTER (COULD BE AIRBORNE

OF THE 170 GRAMS CAUGHT IN THE FILTER
72.7% IS PM₃₀ AND SMALLER AND
WILL STAY SUSPENDED IN THE AIR FOR LONG
PERIODS OF TIME.

SO THE FRACTION OF GRIT USED THAT
WILL BE EMITTED IS AS FOLLOWS

$$\frac{170 \text{ (AMOUNT AIRBORNE)} \times (1 - .727) \text{ (PM}_{30} \text{ FRACTION)}}{10604 \text{ (AMOUNT USED)}} = .0044$$

OR 0.44% OF TOTAL USED IS EMITTED.

A SIMILAR ANALYSIS CAN BE DONE FOR
BLACK GRIT.

001111

Black Beauty $\frac{146}{5931} \times (1 - .905) = .00234$

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

August 19, 1996

Mr. Thomas E. Hord
Vice President
HERCULES MARINE SERVICES
CORPORATION
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide a Material Safety Data Sheet (MSDS) for each compound used including sand, black beauty sand, and the paint used.
2. I cannot understand the section entitled "Fraction Airborne from Black Beauty" from the calculation of sandblasting emissions. Please explain this calculation.
3. Best available control technology (BACT) for sandblasting was not included. BACT for sandblasting includes:
 1. No use of silica sand.
 2. A shroud 15 feet higher than the item being blasted.

Please address this issue.

001112

Mr. Thomas E. Hord

Page 2

August 19, 1996

Re: Permit No. 32768

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 30 days of the date of this letter may result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, a new PI-1 application form and all the information requested above will be required. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

Thank you for your cooperation in this matter. If you have questions concerning the review of this notice, please contact me at (512) 239-1372.

Sincerely,



Katherine C. Hauer
Chemical Section
New Source Review Division
Texas Natural Resource Conservation Commission

KC/ms

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. H. M. Walker, PhD., Environmental Consultant, Dickinson,

001113

APPLICATION FOR A TNRCC CONSTRUCTION PERMIT

FOR

HERCULES MARINE SERVICES CORPORATION

OF

FREEPORT, TEXAS

Submitted May 3, 1994

Application prepared by

H.M. Walker, Ph.D.

Environmental Consultant

001114

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NOTE TO APPLICANT: Please mark an "X" in the column labeled "Applicant use" to indicate that the information has been provided. You may also use the column labeled "Comments & Discussion" to explain your action.



**TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PERMITS DIVISION - CORE SECTION
AIR QUALITY PERMIT APPLICATION
ADMINISTRATIVE COMPLETENESS CHECKLIST**

C:\MSOFFICE\TNRCC\LET.803 (Rev. 02/1/93)

| | | | | | |
|-------------------------------------|------------------------|---------------------------------------------------|------------------|------------------------------------------|-------------------|
| COMPANY <u>Hercules Marine Corp</u> | | PROJ No.: _____ | PROJ TYPE: _____ | CORE ENGR: _____ | RECORD No.: _____ |
| REGION _____ | COUNTY <u>Brazoria</u> | Tech. Contact: <u>H.M. Walker Env. Consultant</u> | | Phone: <u>713 337-1177</u> | |
| DATE RECD by CORE: _____ | | Comments _____ | | DATE ADMIN COMP: _____ | |
| DATE RECD by TECH. ENGR: _____ | | Comments _____ | | TECH. ENGR: _____ TECHNICAL SECT.: _____ | |

<----- TNRCC use only ----->

| PI-1 REF | REQUIRED INFORMATION | Applicant use | DATE ADMIN COMPLETE | NOT COMPLETE | NOTHING SUBMITTED | COMMENTS & DISCUSSION |
|-------------|------------------------------------------|------------------|------------------------|-----------------|----------------------|--------------------------------------------------|
| | CONFIDENTIAL Information? ⁽¹⁾ | <u>No</u> | | | | [] YES [] NO |
| | CONFIDENTIAL pages marked? | <u>No</u> | | | | [] YES [] NO |
| | CORE Checklist attached | <u>✓</u> | | | | [] YES [] NO |
| | NOV related notification | <u>No</u> | | | | [] YES [] NO |
| | Net number of new jobs created | <u>✓</u> | | | | |
| | Name of elected State Senator | <u>✓</u> | | | | |
| | Name of elected St. Representative | <u>✓</u> | | | | |
| I. | Type of Application | <u>✓</u> | | | | [] PERMIT [] AMENDMENT |
| | A. Permittee Name, Tax ID & Addr. | <u>✓</u> | | | | |
| | Technical Contact (addr, phone) | <u>✓</u> | | | | |
| | B. Owner Name, Tax ID & Addr. | <u>✓</u> | | | | |
| | C. Product/Business & SIC Code | <u>✓</u> | | | | |
| II. | A. Plant/Site Name | <u>✓</u> | | | | |
| | B. Address of Facility | <u>✓</u> | | | | |
| | C. Nearest City, County and Zip | <u>✓</u> | | | | |
| | D. Latitude and Longitude | <u>✓</u> | | | | |
| | E. TNRCC Air Quality Acct. No. | <u>✓</u> | | | | |
| III. | A. Name of Facility | <u>✓</u> | | | | |
| | B. Facility Type | <u>✓</u> | | | | [] PERMANENT [] PORTABLE |
| | C. Operating Schedule | <u>✓</u> | | | | |
| | D. Start Dates | <u>✓</u> | | | | CONST DATE _____ OPER DATE _____ |
| IV. | A. New Permit Unit - grass roots | <u>✓</u> | | | | New grass roots facility at this location. |
| | B. New Permit Unit - non-permitted | <u>✓</u> | | | | Modification of exist. non-permitted facility. |
| | C. Amendment to permitted facility | <u>✓</u> | | | | [] Present Permit No. _____ |
| | D. Change in Location | <u>✓</u> | | | | [] Present Permit No. _____ |
| V. | A. Compliance History - Exempt | <u>✓</u> | | | | [] YES [] NO |
| | B. Comp. Hist. - site ≥ 5 yr old | <u>✓</u> | | | | [] YES [] NO |
| | C. Comp. Hist. - new site | <u>✓</u> | | | | [] YES [] NO |
| | D. Comp. Hist. - site < 5 yr old | <u>✓</u> | | | | [] YES [] NO |
| VI. | A.1 Area Map | <u>✓</u> | | | | |
| | School within 3,000 feet? | <u>No</u> | | | | [] YES [] NO |
| | A.2 Plot Plan | <u>✓</u> | | | | |
| | B. Emission Data & Table 1(a) | <u>✓</u> | | | | |
| | C. BACT Analysis | <u>✓</u> | | | | |
| | D. Franchise Tax Certificate | <u>✓</u> | | | | [] N/A [] Certificate good thru ____/____/____ |
| | E. Permit Fee Required? <u>Paid</u> | <u>✓</u> | | | | [] YES [] NO |
| | Fee Cert. & Table 30 | <u>✓</u> | | | | |
| VII. | A. Process Flow Diagram | <u>✓</u> | | | | |
| | B. Process Description | <u>✓</u> | | | | |
| | C. Material Balance | <u>✓</u> | | | | |
| VIII. | 116.111(1) TNRCC Rules & Regs | <u>✓</u> | | | | |
| | 116.111(2) Emissions Measurement | <u>✓</u> | | | | |
| | 116.111(3) BACT Analysis | <u>✓</u> | | | | |
| | 116.111(4) NSPS | <u>✓</u> | | | | |
| | 116.111(5) NESHAPS | <u>✓</u> | | | | |
| | 116.111(6) Facility Performance | <u>✓</u> | | | | |
| | 116.111(7) Non-Attainment review | <u>✓</u> | | | | |
| | 116.111(8) PSD review | <u>✓</u> | | | | |
| | 116.111(9) Impacts/Modeling | <u>✓</u> | | | | |
| X. | Copy to EPA Region 6 office | <u>✓</u> | | | | [] YES [] N/A |
| | Copy to TNRCC Regional Office | <u>✓</u> | | | | [] YES City _____ |
| | Copy to Local Program(s) | <u>None</u> | | | | [] YES [] N/A |
| XI. | Application "sealed" by P.E.? | <u>NA</u> | | | | [] YES [] NO |
| XII. | Authorizing Signature/Date | <u>✓</u> | | | | |

These items will not result in the application being considered administratively deficient; however, they MUST be submitted prior to final action or approval of the application.

- (1) CONFIDENTIAL information MUST be clearly marked on each page and separated from non-confidential information. The application must include in the non-confidential files a topic outline describing the confidential information. To be considered confidential, each page must be marked "CONFIDENTIAL" at the time of submittal.

001116

HERCULES COMPLIANCE HISTORY

HISTORY OF THE HERCULES SITE:

The Hercules facility has existed on its present site since 1970 which datewise makes it a "grandfathered" facility in the view of the TNRCC. This means that it existed and operated prior to 1971 when the first requirements for air pollution abatement, permits, etc became effective. Grandfathered facilities were exempt from such requirements and have ever remained so until such time as they change their mode of operation in some manner, which triggers the need to apply for a formal construction permit and later for an operating permit. One TNRCC representative has indicated that the agency has no record of proper registration of the facility under the 1987 grandfathered source registration edict.

The earliest records which I have yet found date from 1981 when Fish Engineering owned the operation. A plot plan dated 1981 is substantially identical with the present facility as far as can be ascertained.

On 2/14/89 Hercules Offshore Drilling Company was granted a permit exemption (No. X-13561) for a barge cleaning facility. This action was supposedly based on an application dated 4/19/82 (presumably by Fish). It was also noted that this permit was associated with a "change of ownership" of the facility. Specifically listed sources were a boiler H-1 (oil fired) and the cleaning area designated as AREA-1. It was apparently designated as a major facility (more than 100 tons of air emissions). The allowables listed were much less being: particulates 0.17 t/yr, VOC .09 t/yr, NOx 1.88 t/yr, SO2 17.31 t/yr and CO .86 t/yr --all from the boiler. The cleaning area was assigned NM VOC-U 2.09 t/yr. These values were in gross error. The boiler emissions are far too high, the cleaning area emissions are too low as long as barge degassing is included. The 100 ton figure may have been in the ball park. However one must remember that in those days emissions from surface coating or from vessel degassing had not yet been recognized by the regulatory agencies as officially existing. Gas-freeing was discussed in the Fish application as a routine procedure applicable to essentially to all barges. It was also mentioned that emissions from gas freeing were not estimated because EPA at that time was legally restrained (presumably by the Coast Guard) from regulating marine vessel emissions. No specific mention of sandblasting and surface coating activities was found in the 1981/2 discussion but such activities were clearly part of services which included "barge repair", "cutting", and "welding". It is assumed that they were always a major function of Fish and later Hercules. In later documents TNRCC refers to this permit number as X-3561. This X permit was granted on the basis that the facility "will not make a significant contribution to air contaminants in the atmosphere".

Sometime, apparently between 1982 when a photograph shows only industrial marine activities in the area, and 1989; a waterfront residential development was constructed along some old dredged marine industrial channels lying to the southwest of Hercules. Apparently the boat slips included in the residential development was formerly used industrially. The photo referenced above clearly shows a barge in the slip which is now lined with several waterfront homes.

It may be that Fish owned all of the property between the present Hercules boundary and the present residential area boundary but did not sell the intervening block to Hercules. The status of the intervening block is being investigated.

Apparently in this period Mr. Bob Casales became the owner of the house on the old slip about 500' from Hercules. Although he knowingly moved into a going industrial/marine area he apparently assumes that only he has rights and that industry and their employees have none. He has become a chronic complainer to anyone who will listen. The TNRCC is forced by the laws and their policies to listen (but not necessarily to agree). Since his arrival he has registered perhaps 50 such complaints plus complaints to the Freeport city government, its fire department, its police department and other agencies which he feels might offer a sympathetic ear. More seriously he has directed his complaints to Dow Chemical Company management (sometimes late at night), who has long been Hercules principle customer. As a result of this pressure and Dow's public "green" posture Dow has ceased sending barges to Hercules for cleaning and/or repair and sends them to Houston to competitors who operate just as Hercules always did.

As a result Hercules immediately engaged a consultant with the assignment to immediately get a TNRCC permit for a full vapor collection/destruction system which would meet the future Reg V standards and hopefully end the complaints and Dow's reluctance. Unfortunately the first consultant proved to be unable to do the job and after wasting about one year, his inadequate attempt at an application was cancelled by the TNRCC permit engineer. The first consultant was fired by Hercules and the undersigned assumed the responsibility for a new application at the end of February.

During this period Hercules business dwindled and its staff has been reduced from a peak of perhaps 25 employees to just 10 key individuals who have been retained in order to form the nucleus of the Hercules staff when a permit is secured and the business can again start up. Of course there is great pressure by all of the Hercules employees to get the permit applied for quickly. Frankly they are all greatly concerned that bankruptcy will occur and the will no longer have jobs. The undersigned also feels this pressure and is doing everything in his power to move the permit along in any form which will satisfy Dow and get Hercules going again.

I understand that as a result of Casales numerous complaints that Hercules has more TACB/TNRCC inspections than any other facility in the State. Casales frequent complaints against Hercules involve sandblasting dust, odors, toxics in the air, noise, etc. TACB/-TNRCC has extended him every courtesy and has sent inspectors (from Houston) to check out every complaint. They mounted a period of intensive surveillance and made perhaps 10 successive inspection within a period of less than 10 days. Often Freeport or other local officials accompanied the TNRCC inspectors.

Surprisingly Hercules has been found nearly blameless through all of this. They received a NOV (notice of violation) in 1989 for nuisance dust carry over. This was resolved with an agreement on the part of Hercules to abstain from blasting when the wind was toward Casales residence. No fine or other action was involved. One of the later intense surveillances involved 3 TACB inspectors (1 from Austin) who reviewed everything (5/13/92). A NOV was issued for poor record keeping, operation of the boiler for more than 147 hours in the year (How this restriction came about in the X-permit is beyond me.), lack of submerged fill pipes in the recovered organic tanks and lack of a proper cover on an oil-water separator. Hercules remedied all of these items promptly. No fine was assessed.

Essentially no specific complaint of Mr. Casales was ever confirmed by any inspector. These frequently involved odors, claims of sandblasting dust on the Casales property, noise, mere activity, etc. None of the various agencies involved confirmed any specific complaint.

At one time TACB took dust wipings from Casales auto, house, etc and subjected them to extensive (and expensive) analyses. They turned out to be typical road dust. No evidence of Hercules sources was found.

During this period Hercules mounted an expensive program of ambient air analysis which turned up nothing of significance. Apparently this was done without any pre-agreement on the part of TACB that such analytical work could prove anything one way or another. In the undersigned's judgement this effort was based on bad advice and was largely a waste of money.

While TNRCC is forced to humor Casales and react to his calls, it appears however that he has lost much credibility with them. He has not been able to generate any significant or repeated support from his neighbors. I believe that he is a decreasing threat to Hercules although not yet insignificant.

This information constitutes the compliance history of Hercules as the undersigned has been able to elucidate it. It is a small organization with little or no technical abilities and whose top

management has changed repeatedly due to sale of the business, etc. Its cadre of 10 current people at the site seem quite competent and in fact at one time won an award from Dow as being its most effective sub-contractor.

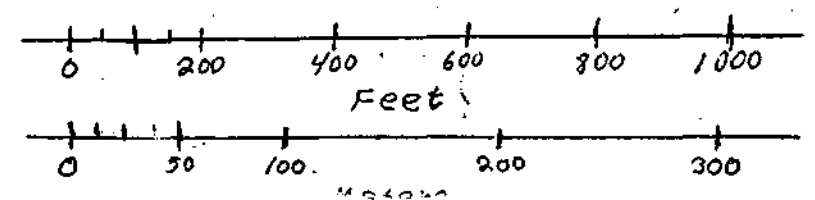
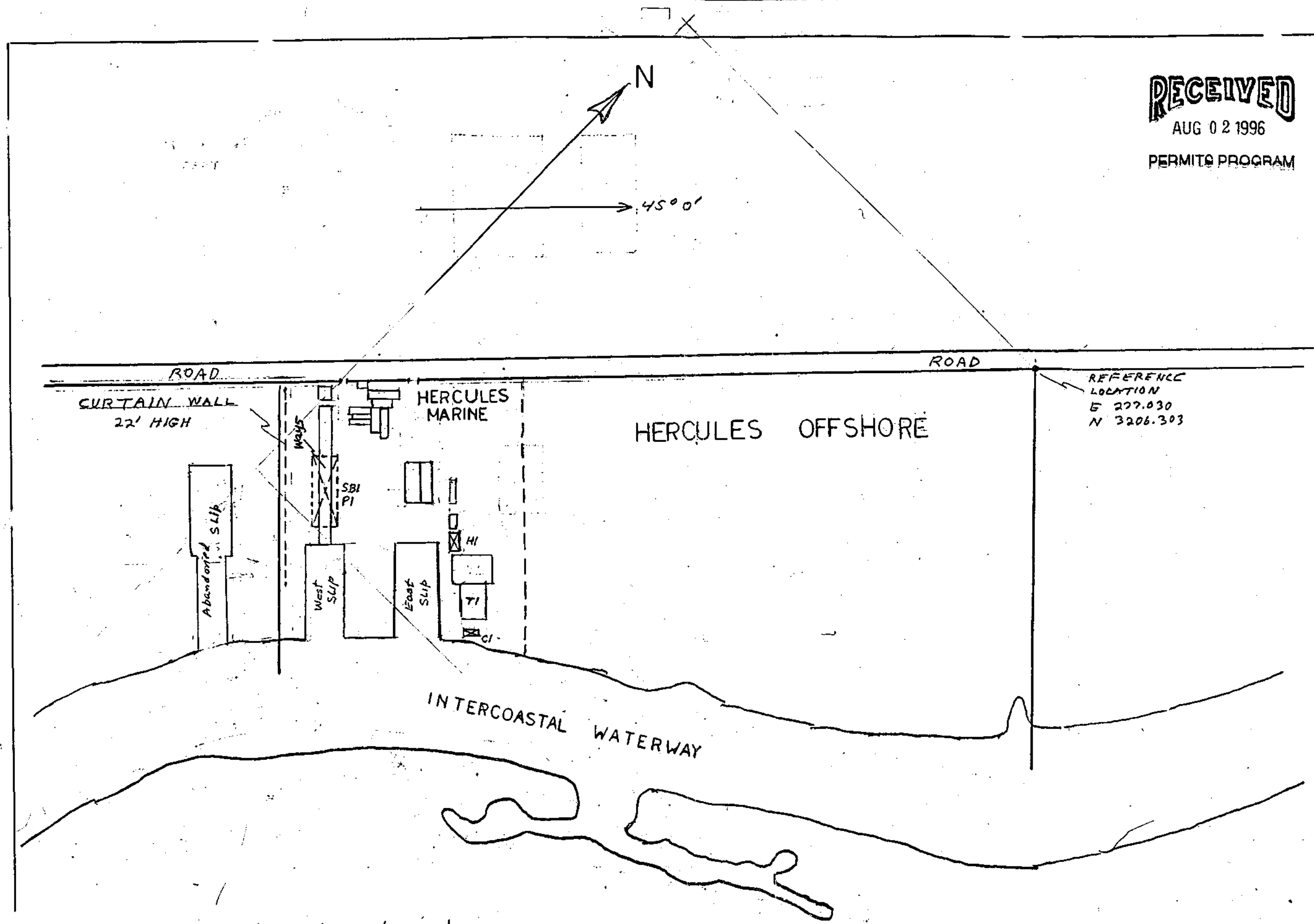
It is very unfortunate that Hercules must now be the pioneer in installing sophisticated vapor controls more than 2 years ahead of all of its competitors. Only when all competitors are using the same costly abatement procedures will Hercules be able to get adequately paid for the new costs involved. Hercules needs flexibility in its permit to bridge over the next two years while it pioneers a dangerous new technology. It is my opinion that this can be arranged in the permit without compromising any TNRCC standards along the way.

Harry M. Walker, Ph.D.

RECEIVED

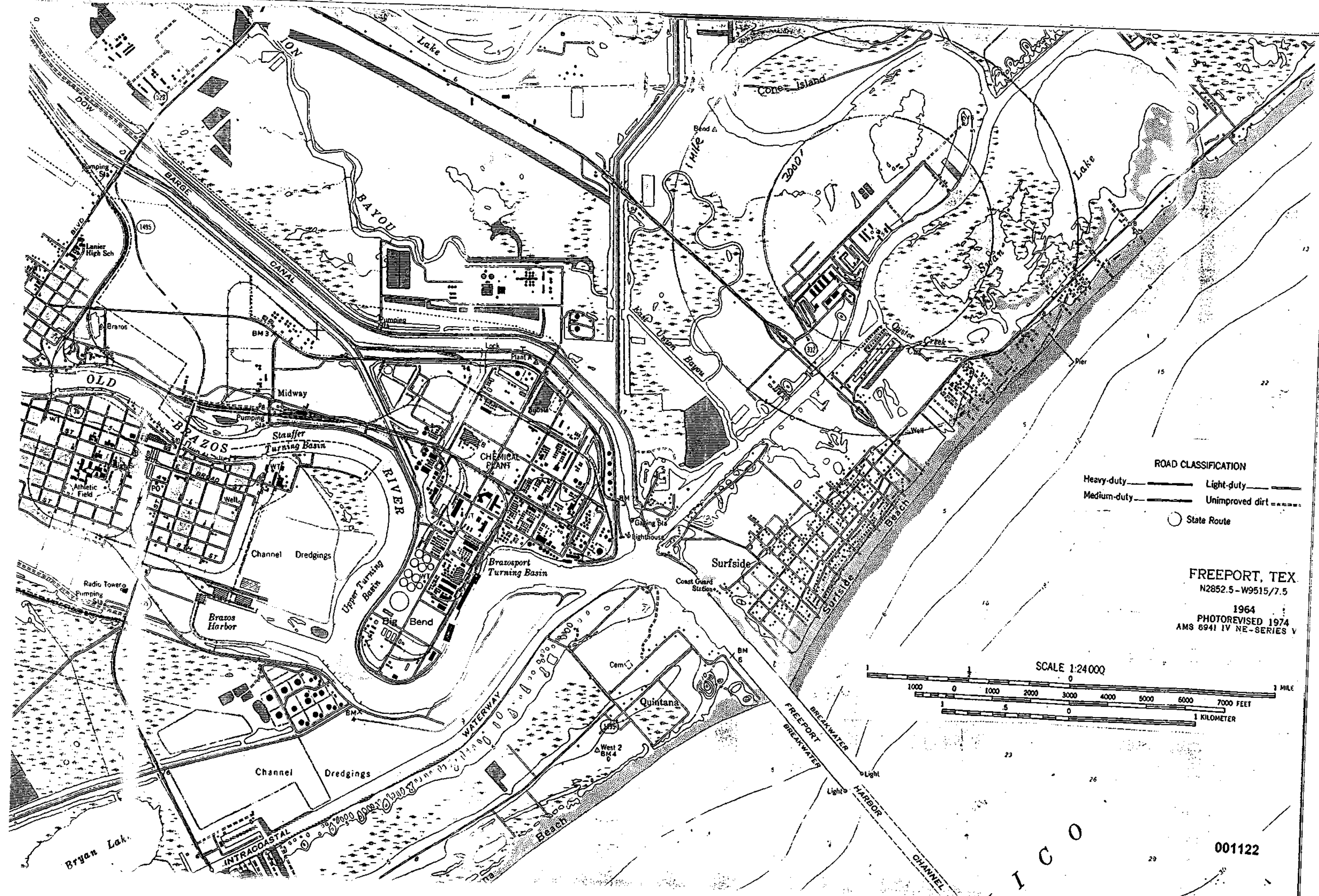
AUG 02 1996

PERMITS PROGRAM



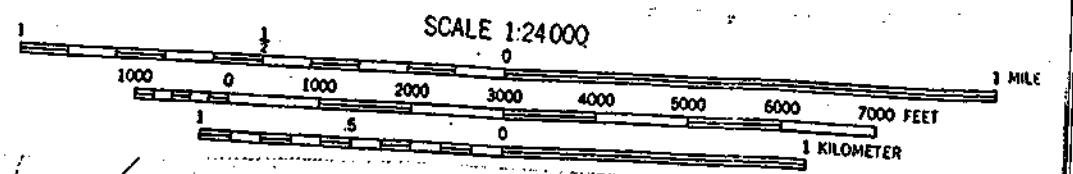
PLOT PLAN HERCULES
CREEDPORT TX 4/04

001121

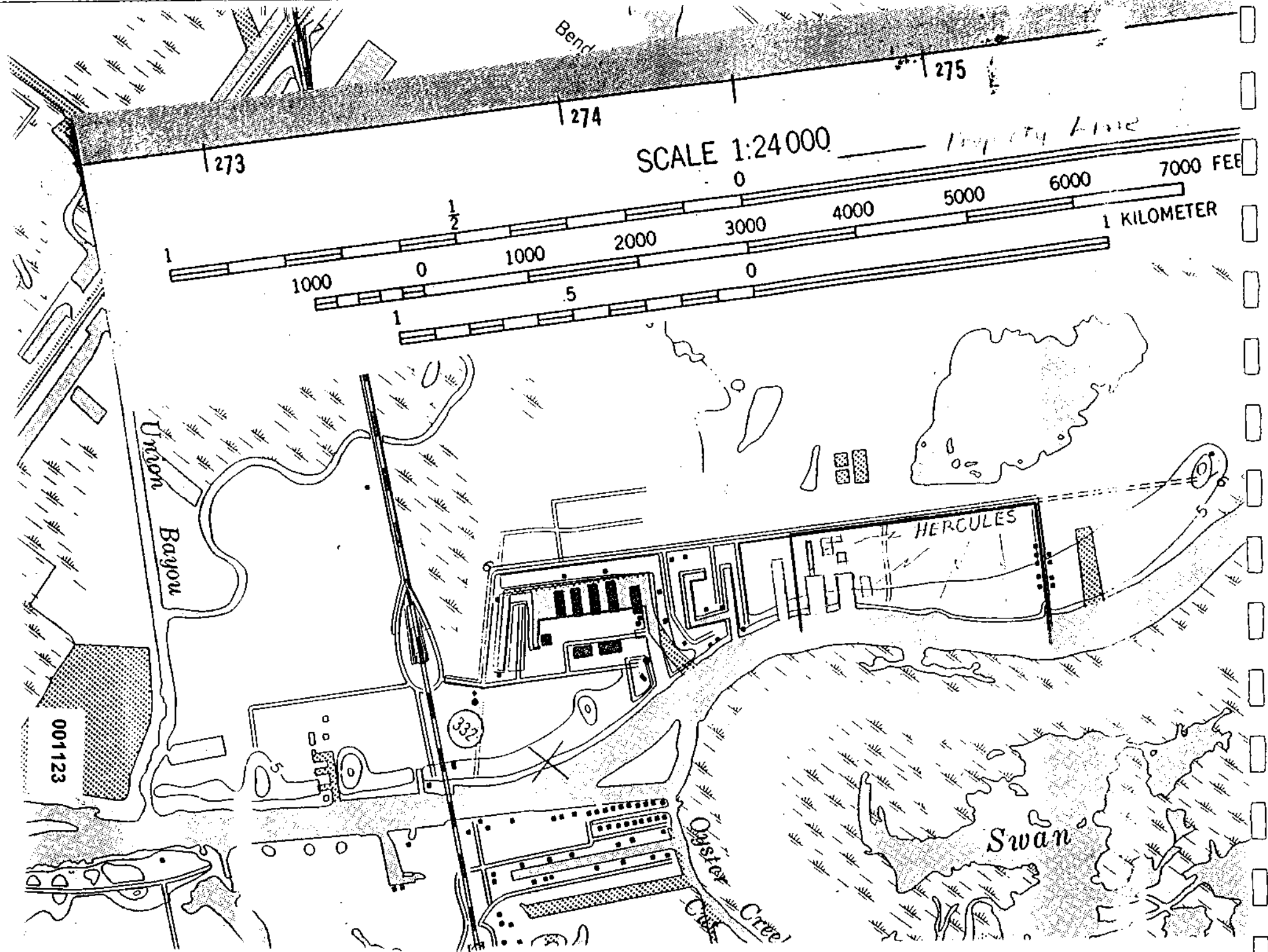


ROAD CLASSIFICATION
Heavy-duty ——— Light-duty ———
Medium-duty ——— Unimproved dirt ———
○ State Route

FREEPORT, TEX.
N2852.5-W9515/7.5
1964
PHOTOREVISED 1974
AMS 6941 IV NE-SERIES V



001122



PERMIT NO. _____

PERMIT TYPE: CONSTRUCTION []

AMENDMENT []

REVISION []

RENEWAL []

ACCOUNT NO. _____

TABLE 1(a)
EMISSION SOURCESPAGE ____ OF ____
DATE _____

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

| AIR CONTAMINANT DATA | | | | | | EMISSION POINT DISCHARGE PARAMETERS | | | | | | | | | |
|-----------------------|--------------------|---------------------------------------------|---------------------|----------------------------------|--------------------|----------------------------------------|------------------|-------------------|----------------------------------------------|-----------------------------------------------|-------------------|-----|------|-------------------------|----------------|
| EMISSION POINT (1) | | CHEMICAL COMPOSITION OF TOTAL STREAM | | AIR CONTAMINANT EMISSION RATE | | UTM COORDINATES OF EMISSION PT. (6) | | | SOURCE HEIGHT ABOVE GROUND (ft.) | SOURCE HEIGHT ABOVE STRUCT. (ft.) | STACK SOURCES (7) | | | FUGITIVE SOURCES (8) | |
| NUMBER | NAME | COMPONENT OR AIR CONTAMINANT NAME (2) | CONC. (%) (3) | #/HR (4) | TONS/ YR (5) | ZONE | EAST (meters) | NORTH (meters) | | | EXIT DATA | | | LENGTH (ft.) | WIDTH (ft.) |
| H-1 | Steam Boiler | CO | | 0.06 | 0.02 | 15 | 276.745 | 3205.778 | 20 | — | 1 | 10 | 500 | | |
| H-1 | " | NO _x | | 0.35 | 0.114 | 15 | " | " | 20 | — | " | " | " | | |
| H-1 | " | SO ₂ | | <.001 | <.0001 | 15 | " | " | 20 | — | " | " | " | | |
| H-1 | " | VOC | | .003 | .003 | 15 | " | " | 20 | — | " | " | " | | |
| SB-1 | Sandblasting | PM ₁₀ | | 2.1 | 2.1 | 15 | 276.630 | 3205.733 | 6 | — | | | | 100 | 54 |
| C-1 | Combustor Stack | VOC | | 14.7 | 4.04 | 15 | 276.840 | 3205.735 | 20 | — | 70"x 58" | 508 | 1400 | | |
| C-1 | " | SO ₂ | | <.01 | <.005 | 15 | " | " | 20 | — | " | " | " | | |
| C-1 | " | NO _x | | .339 | .093 | 15 | " | " | 20 | — | " | " | " | | |
| P-1 | Surface Coating | VOC | | 18. | 1.54 | 15 | 276.630 | 3205.733 | 6 | — | | | | 100 | 54 |

001124

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL 5 feet.
TACB STANDARD CONDITIONS ARE 68°F AND 14.7 PSIA [RULE 131.01.00.001(55)]

See instructions on reverse side.

RECEIVED

AUG 02 1996

PERMITS PROGRAM

DISCUSSION OF BACT
DISCUSSION OF HERCULES SYSTEM

BARGE DEGASSING:

Today, BACT for the degassing of barges containing explosive mixtures of flammable vapors is to use air or steam driven eductors inserted into barge compartment hatches and blow the contents to the atmosphere. This is so because the hazards of causing an explosion are so great that no really safe technique today exists to convey the vapors to a flare, combustor or scrubber as an air pollution abatement device. This is undoubtedly why the application date for the abatement of vapors in such operations has been deferred to November 15, 1996. The industry is feverishly searching for an answer before the due date.

While some safe systems are in operation for abating the vapors displaced during barge loading operations they involve inerting with nitrogen, conveying an unexplosive mixture hundreds of feet to a combustor where a large quantity of fuel gas and fresh air must be admixed before combustion can occur. They are extremely expensive systems to operate yet, unlike the more general problem faced by Hercules, they usually only operate on one specific material and require only one turnover of barge vapors per loading.

Degassing empty but fume-filled barges is a very different matter. Here most operators are thinking in terms of 2 or 3 turnovers. One TNRCC document even suggests that 4 turnovers should be used. All those concerned are attempting furiously to somehow reduce the number of turnovers needed to reach a regulatory compliant condition because of the extreme fuel cost for burning air in a combustor. However such considerations are almost beside the point. Safety considerations outweigh all other issues.

There is no consensus on conveying explosive mixtures. Many contend that they must be diluted to well below the LEL immediately (the Coast Guard says 30% of the LEL). Others point out that enriching with natural gas to well above the LEL (the Coast Guard says 170%) is a better way to go at least for very rich vapors. Either way a non-explosive mixture is transported, passed through blowers, flame arresters, detonation arresters and finally admixed with fuel (and maybe air) and in some manner and burned. In any case if an inert (as air) are added it enlarges all of the equipment and increases the fuel cost practically in proportion to its volume. (For example: To inert air saturated with benzene vapors at 90 ° F to 50% of the LEL with air requires 7 volumes of

fresh air per volume of saturated vapor.)

Enriching is little better, in that case so much new fuel is added, that the hourly quantity of the enriched mixture which can be fed to a given burner is greatly reduced prolonging the degassing period prohibitively.

There is another group of safety experts which feels that explosive mixtures can be conveyed safely and safety can be assured by using flame arresters and detonation arresters. However many contend that this is insufficient and hazardous. Whether an explosive mixture can be passed through a blower safely is an uncertainty. What happens if the blower bearings fail and the rotor drags on the case? Should the blower be made only of a non-sparking metal like copper?

HERCULES PROPOSED SYSTEM:

Hercules, recognizing the uncertainties and the considerable danger has no immediate plans to handle barges containing explosive mixtures. Instead it will initially confine its activities to barges containing only materials of lower vapor pressure while developing its operating know-how and its techniques. Thus the information developed in Table II ranges only up to 0.6 psia vapor pressure. It is not the intention of Hercules to have the TNRCC so limit the range of degassing activities permitted under the permit. When Hercules becomes satisfied that it has a safe system it wants to be free to do preliminary full-scale degassing in the higher vapor pressure ranges. The issue is not cost, it is not emissions, it's safety.

With some analyses suggesting prohibitive fuel cost of \$1000 or more for degassing a single 30000 bbl barge, great efforts are being made to reduce the number of turnovers required to achieve effective degassing. Hercules knows that vapors in barges are heavily stratified with the most concentrated vapors being at the bottom and much more dilute mixtures being found at the top. It will therefore arrange its connections to the barges so as not to disturb this favorable situation. First, the 16" vapor suction line will, using flexible vapor hose, be extended to within 2' of the bottom of each barge compartment just above the sump. This will allow the most concentrated vapors to be removed first. Second, by means of a simple diffuser inserted into the air input hatch Hercules will cause the air being admitted to flow in horizontally in a manner which will cause minimum turbulence and mixing of air into the vapors already in the barge. Ideally this could reduce the processing need to close to one turnover to reach the regulatory requirement. Precedence for this is found in the EPA's AP42 fixed roof tank calculation program, where such tanks when turned over rapidly begin to approach the behavior of internal floating roof tanks.

USE OF AN IN-LINE CHILLER:

Hercules has made calculations concerning the possible use of an in-line vapor chiller situated close of the barge. A high VOC vapor pressure in a barge becomes prohibitively costly to degas because it limits the rate that vapors can be fed to a fixed-capacity combustor. In the case of benzene at 90 degrees the volume to be burned might be increased 3-fold with a nearly proportional decrease in degassing time. (The idea that rich mixtures are cheaper to combust is fiction. Capacity/time considerations completely override the greater number of BTUs from the vapors.) Hercules therefore may investigate the use of an in-line vapor chiller and wants no restrictions placed in its permit which would preclude this experimental program.

BACT -SANDBLASTING/PAINTING:

Hercules' proposals concerning sandblasting are 100% in accord with recommendations made by the TNRCC staff in several discussions. They therefore represent BACT for its class of facility.

Marine vessel surface coating has been exempted by the TNRCC from the provisions of section 115.421 (9). Therefore restrictions on the VOC content of the surface coatings do not apply to paints used by Hercules. Due to the corrosive conditions in the seawater environment the surface coatings used on barges must be of absolutely the highest quality/most durable available. Hercules used largely 2-component epoxies in its surface coating activities. Fortunately these materials are among the group having rather low VOC contents.

BACT -RECOVERED MATERIALS STORAGE:

Hercules has 10 small tanks (average volume 5000 gal) where it stores liquids recovered from the barges. These are segregated by material and type. All tanks are connected to a common vent header system which terminates in two carbon absorption vessels which removes VOCs before they can vent to the atmosphere. Exit vapors from the carbon canister system are checked monthly for possible breakthrough and the cannister replaced when needed. The estimated input of liquid to this system is 200 gallons/barge or 8000 gallons per month.

Shipments are made from tanks frequently and they seldom become full. Shipment is normally by commercial vacuum trucks or tank trucks. Tank covers are well-gasketed and are kept bolted shut except when access to the tank is needed. It is not necessary to open them to pump out the contained liquids. The tanks are used completely interchangeably.

Emissions from the system due to filling and breathing were calculated using AP42-4B on the basis of a common 51000 gallon system.

The annual turnover rate uses was 1.75. The carbon canister at the end of the system was assumed to have a 99% efficiency so the total emissions from these tanks is trivial.



TEXAS COMPTROLLER OF PUBLIC ACCOUNTS

JOHN SHARP • COMPTROLLER • AUSTIN, TEXAS 78774

CERTIFICATION OF ACCOUNT STATUS

THE STATE OF TEXAS

COUNTY OF TRAVIS

I, John Sharp, Comptroller of Public Accounts of the State of Texas, DO
HEREBY CERTIFY that according to the records of this office

HERCULES MARINE SERVICES CORPORATION

is, as of this date, in good standing with this office having no franchise
tax reports or payments due at this time.

This certificate is valid through the date that the next franchise tax report
will be due, MAY 15, 1997.

This certificate is not valid for the purpose of dissolution, merger or
withdrawal.

GIVEN UNDER MY HAND AND
SEAL OF OFFICE in the City of
Austin, this 15TH day of
MAY, 1996 A.D.

JOHN SHARP
Comptroller of Public Accounts

Charter/C.O.A. number: 012824199-0

RECEIVED

AUG 02 1996

PERMITS PROGRAM

001129

SHOP

QUONSET

HERCULES OPERATING AREA DETAILS HMW 4/94

N

Fresh
water

Lunch
Room

Boiler Ht
UTM E 276.745 N 3205.778

CONCRETE

TRAP
TANK

DIKE
18"

Diesel oil

wash water
tanks

2000

VAC
PUMP

CONCRETE

73500
28000
73500

Vacuum
stripping
Tanks

Flexible
Hose
14"

Diffuser
in
Hatch

30000 BBL BARGE

EAST SLIP

caustic sol'n

carbon
traps

500
Vent T-1

Trap
Tank

100
500
6000
300
300
4500
6000
4000
30000
3400

Recovered
Product
Tanks

PVC LINE
14"

Blower

C-1

CONCRETE
DIKE 18"

Air T

COMBUSTOR

INTERCOASTAL WATERWAY

0 50 100 150
Feet

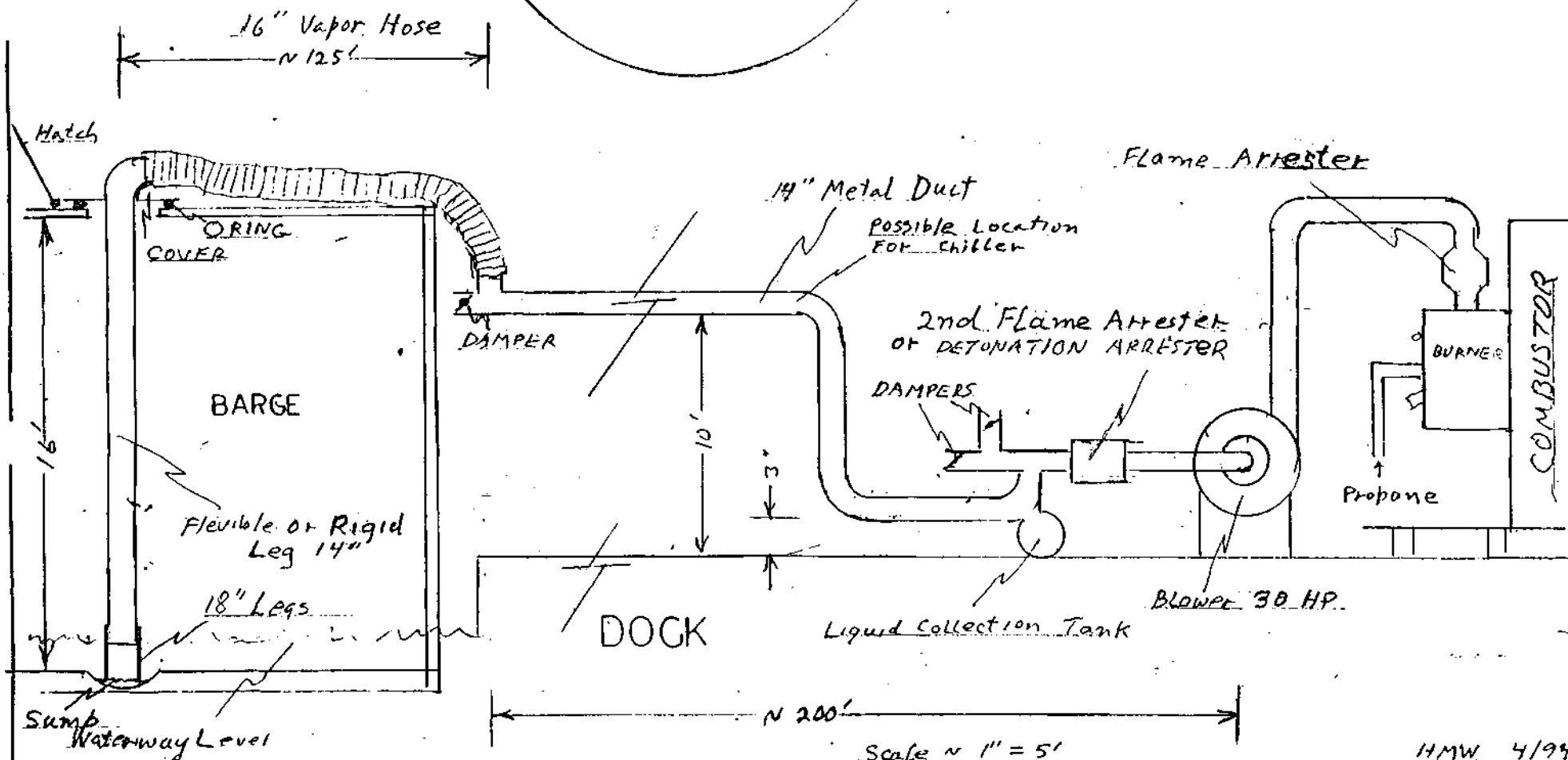
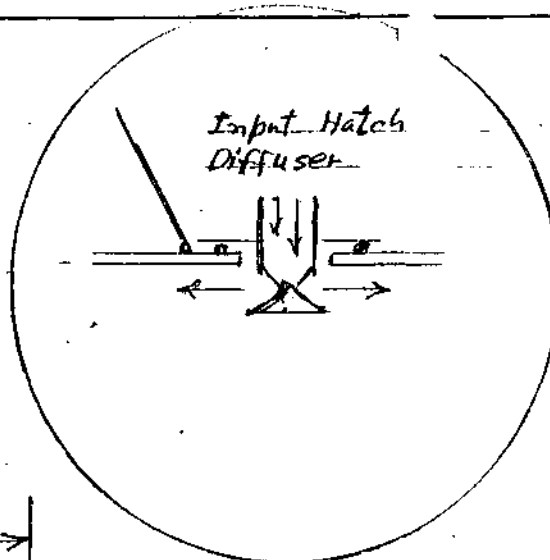
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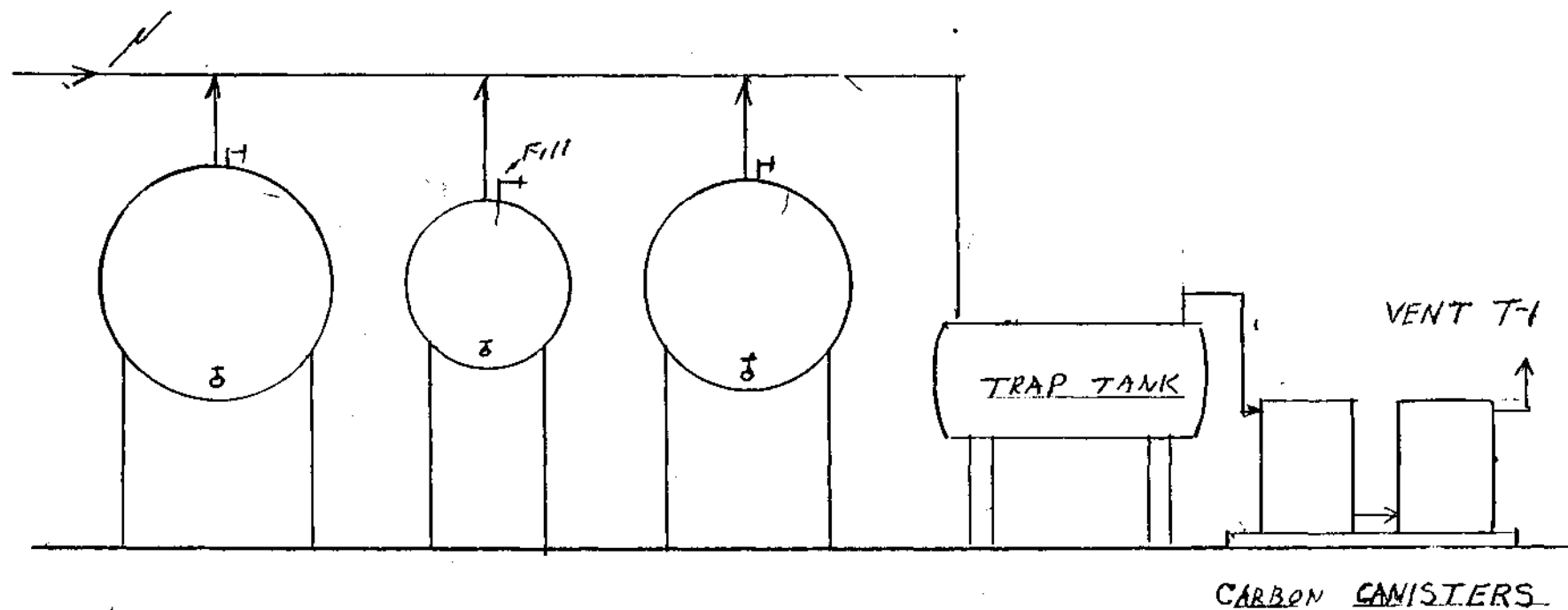
001131



HERCULES
VAPOR COLLECTION SYSTEM

HMW 4/94

From 7 other Tanks



001132

HMMW 4/94

HERCULES
RECOVERED PRODUCT TANKS

HERCULESE MARINE CORP

Description of Processes

INTRODUCTION:

Herculese Marine Corp provides services to the barging industry. These services are: Degassing of vessels, cleaning of vessels, and repairing of vessels. The vessels are primarily large barges used in the transportation of liquid materials by the refining and petrochemical industries. These services include the sandblasting and painting of barges as well as mechanical repair and welding. Hercules has a "ways" in conjunction with one of its barge slips which permits it to pull a barge entirely out of the water should it be necessary to do repairs on its bottom or to sandblast and repaint the entire hull.

Barge are typically of 10000 bbl, 20000 bbl or 30000 bbl capacity. They are very large units. A 30000 bbl barge will be about 300' long overall, 54' wide and 14' deep. It will draw about 10' of water when loaded. The 10000 bbl units are 35' wide but are usually 167' long and draw about 6' of water loaded.

BARGE DEGASSING:

As a service organization Hercules is called upon to service all types of non-pressure barges which could have been in almost any type of prior duty. While arriving "empty" they never-the-less typically will contain a few gallons of their prior cargo in the bottom sump and the air within their cargo holds will be heavily contaminated, possibly saturated, with vapors of the same material.

Decontaminating barges first requires removing the residual liquid with a small hand-held pipe probe extended to the sump from the deck through a hatch. An attached suction pump removes this liquid and sends it via a 2" hose to one of 10 product holding tanks. This liquid, which sometimes amounts to as much as 400 gallons, is of value and is held in the tank for later sale.

The following step, degassing, traditionally has been done with air or steam powered eductors inserted into 1 or 2 hatches per compartment. These induce a flow of vapors out of the barge through the inductors to the atmosphere. The barge atmosphere is gradually replaced with fresh air which flows into the barge

through at least one other opening in the compartment roof. Naturally, depending on the prior service of the barge, this procedure often involved the emission of considerable quantities of VOCs to the atmosphere. Since the vapor/air mixtures contained in barges are often explosive, barge decontamination is fraught with danger.

The procedure discussed has hitherto met with the approval of the TNRCC, EPA and other regulatory bodies because no safe as well as economical alternative system has been available. This remains true today and will still be true on November 15, 1996 when section 115.541 of Chapter 115 (known as revised regulation V) takes effect.

It is Hercules intent to immediately install a system using a propane-fired combustor to destroy degassing vapors containing large concentrations of VOCs. It is Hercules intent to use this system carefully with utmost attention to safety considerations. It is Hercules intention during the next 2 years to learn the limitations of the system and to develop procedures which will permit its routine use in compliance with the attainable provisions of section 115.542. During this learning period Hercules will fully comply with current regulations. Hercules will not attempt to burn explosive mixtures until it becomes completely familiar with the system and satisfied with the safety of the procedure.

Barge degassing is Hercules most significant air emissions source which the current program seeks to remedy. Two lesser problems being addressed are dust from sandblasting and VOC emissions from surface coating operations.

It is Hercules intent to later install a water scrubber on the stack of the combustor so that chlorinated hydrocarbon vapors can be burned. This will be handled in a separate permit amendment application.

SANDBLASTING:

While considerable standard technology exists for dealing with sandblasting dust in most typical indoor situations, treating barges as large as a football field outdoors is another matter. Fortunately in dealing with sandblasting on a large scale outdoors the TNRCC has developed guidelines which Hercules can meet. Hercules intends to conform to these guidelines fully. Hercules will therefore do the following:

- 1) Erect a fabric or plastic curtain 300' long and 22' high along the west side of its property to be used during sandblasting and painting. This is the side toward some residences more than 500' away. This curtain will significantly reduce the quantity of windborne dust which

will drift to the west and southwest even when the wind is in that direction. (The prevailing wind in the Freeport area is onshore from the south or southeast.)

It is a point of information that at one time Hercules installed such a curtain. It proved to be short-lived. It was torn to tatters by the wind in just a few months. It is Hercules intent to purchase a significantly higher quality curtain and to possibly provide a means to draw it in sections when no sandblasting is taking place in the southwest slip or on the "ways".

- 2) Convert to "black grit" sandblasting medium for all major sandblasting jobs. This material contains little or no silica and produces considerably less dust than the quartz sand conventionally used.
- 3) Limit its sandblasting to no more than three guns when the wind is toward the southwest.

SURFACE COATING OPERATIONS:

In conjunction with barge repair sandblasting and repainting are always necessary. Barges function in a marine salt-water environment and require the protection of the highest quality corrosion-resistant surface coatings. Sound surface coating practice requires that the prime coat should always be applied the same day that a surface is sandblasted ---preferably within 4 hours. Again the TNRCC has has experience with the limitations of outdoor sandblasting and has developed guidelines. It is Hercules intent to conform to these guidelines in every way possible. Hercules will therefore do the following:

- 1) Use only airless paint spray guns. These guns will be operated with minimum air pressure sufficient to secure a good break-up of the coating. This will minimize overspray.
- 2) Use primarily urethane and epoxy coatings which in general contain minimal amounts of VOC solvents.
- 3) Minimize spray painting when winds are from the northeast.

MINOR SOURCES ON PROPERTY:

Hercules has 10 small tanks on its property which are used for the temporary storage of liquids recovered from barges. In general these liquids are segregated by identity, as even small quantities are much more marketable when kept pure. Thus one tank may contain

xylene, one #2 fuel oil, one methylethylketone, one denatured ethyl alcohol, etc. Generally one tank contains only heavy hydrocarbon oils which are suitable for marketing as fuel oils. When a sufficient quantity of any one material is accumulated it is sold. This may be as little as 200 gallons. Batches of liquid organics seldom stay in a tank more than 2 weeks. The tanks are interchangeable.

The vapor vents on all 10 tanks are piped together and the common line terminates, via a small trap tank, in a 2 55-gallon carbon absorption canisters. These prevent emissions to the atmosphere from transfers into the tanks and from tank breathing. All other tank openings are kept closed at all times. The total volume of all 10 tanks is 55100 gallons. The anticipated total recovery of barge organics is 200 gal per barge, 8000 per month, 96000 gallons per year. Thus the average annual tank turnover rate is about 1.75 per year. For estimating purposes a 99% capture/abatement has been assumed for the cannisters. Since these tanks share a common vapor system their emissions have been estimated using a conservative figure of 1.7 psia at 90 ° F well over the maximum anticipated single material vapor pressure of 0.65 psia at 80 ° F for the most volatile material likely to be degasses through the combustor. A rate of 1.75 tu/yr was used for the entire group and the calculation was made with AP42-4B. Periodically the carbon canister is tested for leakage of hydrocarbome. When they are detected the first canister is replaced and the 2nd canister made the first one.

Hercules has a 125 hp rated package steam boiler on its property. This is used to generate steam which, in turn, is used to heat washwater for cleaning the barges. When no cleaning is in progress the boiler will be turned off. It is fueled with propane. An estimate of its emissions (using AP42) is attached.

Table II: ENGINEERING ANALYSIS OF TYPICAL MERCULES BARGE DEGASSING OPERATIONS

04/27/94 11:11

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
|----------------|--------------------------|-------|---------|---------|-----|---------|--------|-----------|---------|--------|-------|--------|---------|--------|---------|----------|-------|----------|----------|----------|---------|---------|-------|
| Barge group | Typical Prior Service | Start | Ht of | Ht of | | | | Prelim | 1st TO | 1st TO | | 1st TO | | | Last TO | Last TO | 10000 | 20000 | 30000 | 1st TO | Last TO | Propane | |
| | | Temp | Combust | Combust | LEL | vp @ T | Ht Rel | to burner | Adjstd | Dilutn | Total | Line | Propane | Adjstd | bbl | bbl | bbl | Propane | Cost | Last | Cost | | |
| | | deg F | psia | btu/lb | MW | btu/acf | Vol % | Vol % | Mbtu/hr | cfm | cfm | cfm | Mbtu/hr | vp @ T | Line | to 6.8 M | Barge | STO Time | STO Time | STO Time | Cost | Cost | |
| | | | | | | | | | | | | | | Vol % | Explosv | cfm | cfm | hr | hr | hr | \$/TO | \$/TO | |
| Low <.1 psia | Ethylene glycol | 80 | 0.0002 | 1000 | 106 | 0.0032 | 2.00 | 0.001 | 0.00 | 44.1 | 3956 | 0 | 6.80 | 0.0012 | N | 44.1 | 3956 | 0.71 | 2.13 | 11.53 | 11.53 | 34.59 | |
| Mid .1-.2 psia | Toluene | 80 | 0.1732 | 18250 | 92 | 50 | 1.10 | 1.178 | 12.04 | 0.0 | 2258 | 1742 | 6.80 | 0.6651 | N | 44.1 | 3956 | 0.98 | 2.93 | 0.00 | 11.53 | 17.29 | |
| Hi .2-.6 psia | Ethyl Alcohol | 80 | 0.6000 | 13100 | 46 | 62 | 1.10 | 4.082 | 14.98 | 0.0 | 1816 | 2184 | 6.80 | 1.8533 | Y | 44.1 | 3956 | 1.13 | 2.26 | 3.38 | 0.00 | 11.53 | 17.29 |

TO = turnover

Set for 6.8 mm btu/hr

| Barge group | Start Temp deg F | Group Max VP psia | --90% Abatement-- | | | | | VOC Conc | Function | Barge size, bbl | | | Barge size, bbl | | | | | | | | | |
|----------------|------------------------|-------------------------|-------------------|---------------|----------------|-------------------|------|-------------|----------|-----------------|--------|-----------------|-----------------|-----------|------|------------------------------------------|----------------------|-----------|------------|--------------|-----|--|
| | | | Tot Vol MW | VOC Ft3/mo | VOC Wt #/mo | Emissions #/mo | T/yr | | | 10k | 20k | 30k | Function | 10k | 20k | 30k | | | | | | |
| Low <.1 psia | 80 | 0.1000 | 106 | 1459898 | 9931 | 2671 | 267 | 1.60 | Low | Barges/month | 16 | 2 | 2 | Barges/mo | 16 | 2 | 2 | | | | | |
| Mid .1-.2 psia | 80 | 0.2000 | 92 | 729949 | 9931 | 2318 | 232 | 1.39 | Mid | Barges/month | 8 | 1 | 1 | Barges/mo | 8 | 1 | 1 | | | | | |
| Hi .2-.6 psia | 80 | 0.3000 | 46 | 729949 | 14897 | 1738 | 174 | 1.04 | Hi | Barges/month | 8 | 1 | 1 | Barges/mo | 8 | 1 | 1 | | | | | |
| | | | Totals | | | 6727 | 673 | 4.04 | | | | | | | | | | | | | | |
| | | | | | | | | | | | Low | Hrs/mo degasing | 11.4 | 2.8 | 4.3 | Propane to combustor (all Low vp barges) | | | | | | |
| | | | | | | | | | | | Mid | Hrs/mo degasing | 7.8 | 2.0 | 2.9 | \$/month | 553 | 138 | 208 | | | |
| | | | | | | | | | | | Hi | Hrs/mo degasing | 9.0 | 2.3 | 3.4 | \$/month | 138 | 35 | 52 | | | |
| | | | | | | | | | | | Total: | | | hrs/mo | 28.2 | 7.0 | 10.6 | \$/month | 138 | 35 | 52 | |
| | | | | | | | | | | | | | | | | | ----- | | | | | |
| | | | | | | | | | | | Total: | | | hrs/mo | 28.2 | 7.0 | 10.6 | Tot \$/mo | 830 | 208 | 311 | |
| | | | | | | | | | | | All 40 | | | hrs/mo | 45.8 | Grand total | | | 1349 \$/mo | | | |
| | | | | | | | | | | | | | | | | | Propane to combustor | | | 1798 Gal /mo | | |
| | | | | | | | | | | | | | | | | | Sulfur content | | | negligible | | |

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Table II (cont):

Description of calculations: By column (C numbers refer to column numbers)

- 1 Temperature assumed for all calculations.
- 1 Input vapor pressure psia.
- 2 Input heat of combustion btu/lb.
- 3 Input molecular weight (average for group).
- 4 Computed heat of combustion for barge contents = $C2 \cdot C3 \cdot C1 / 14.7 / C24$.
- 5 Input lower explosion limit (LEL) in vol pct.
- 6 Vapor pressure at temperature T (vol pct). = $C1 / 14.7 \cdot 100$.
- 7 Preliminary heat release if 4000 cfm of barge vapor is burned. $CH \cdot 4000 \cdot 60 / 1000000$.
- 8 If heat release is < 6.8 Mbtu/hr this col gives cfm propane to make up. (If test on C23.)
- 8 Heat release in btu/ft³ from the barge vapor with propane (if needed).
- 9 C23 =-, Barge educt vol for 6.8 Mbtu/hr to combustor. $C23 = 4000 - C23$.
- 10 Volume of dilution air to make up 4000 cfm to combustor. $4000 - C8 - C9$.
- 11 Total heat released in combustor in Mbtu/hr. $(2568 \cdot C8 + C9 \cdot C4) \cdot 60 / 1000000$.
- 12 Vapor pressure in barge line with dilution air added (vol pct). $C6 \cdot C9 / (C9 + P9)$.
- 13 Is C12 greater than the LEL (C5)? Yes line is explosive, No not explosive.
- 14 Propane needed to give 6.8 Mbtu/hr during last TO (no btus in barge) in cfm.
- 15 Barge eduction rate last TO, corrected for fuel addition. $4000 - C14$.
- 16 Time in hours for 3 TOs in 10000 bbl barge. Use average educt rate of 1st & last TOs.
 $56150 / ((C9 + C15) / 2) \cdot 60 \cdot 3$. Theory says average 1st TO & 2 3rd TOs. This allows 50% more time.
- 17 10000 bbl time x 2.
- 18 10000 bbl time x 3.
- 19 Propane cost for 1st TO. Volume $(10000 \text{ bbl}) / (C9 \cdot 60 / 1000) \cdot C27$. (C27 is cost of propane in \$/mcf)
- 20 Propane cost for 3rd TO. Volume $(10000 \text{ bbl}) / (V9 \cdot 60 / 1000) \cdot C27$. (C27 is \$2\$1 = 56150 ft³.)
- 21 Total propane cost for a 10000 bbl barge. $(C20 + C19) \cdot 3 / 2$. \$AB\$1 = 112300 ft³.
- 22 Initial calculation of propane to enrich total to 6.8 Mbtu/hr. (6800000 \$AD\$1 = 168449 ft³.)
- 23 GMV at temperature T.
- 24 Cost of propane in \$ per gallon.
- 25 Cubic ft/gallon of propane at temp T.
- 26 Cost of propane in \$ per 1000 cf. $0.75 \cdot 1000 / (4.34 / 42 \cdot C28)$

Table II (cont-2): MISCELLANEOUS SINGLE SUBSTANCES MANY REQUIRING EXCESSIVE DEGASSING TIME

| | T | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------|-------|--------|---------|-----|---------|-------|--------|----------|-----------|--------|--------|---------|--------|---------|----------|---------|------------|
| | Start | | Ht of | | Ht of | | | Prelim | 1st TO | 1st TO | | 1st TO | | | Last TO | Last TO | 10000 |
| Miscellaneous | Temp | vp @ T | Combust | | Combust | LEL | vp @ T | Ht Rel | propane | Adjstd | Dilutn | Total | Line | | Propane | Adjstd | bbl |
| Prior Service | deg F | psia | btu/lb | MW | btu/acf | Vol % | Vol % | 4000 cfm | to burner | Barge | Air | BTU | vp @ T | Line | to 6.8 M | Barge | 310 Time 1 |
| | | | | | | | | Mbtu/hr | cfm | cfm | cfm | Mbtu/hr | Vol % | Explosv | cfm | cfm | hr |
| Benzene | 80 | 1.9817 | 17986 | 78 | 480 | 1.41 | 13.481 | 115.15 | 0.0 | 236 | 3764 | 6.80 | 0.7960 | N | 44.1 | 3956 | 6.30 |
| Cyclohexane | 90 | 2.6095 | 20350 | 84 | 756 | 1.40 | 17.752 | 181.39 | 0.0 | 150 | 3850 | 6.80 | 0.6654 | N | 44.1 | 3956 | 9.72 |
| Ethyl Alcohol | 90 | 1.7181 | 13100 | 46 | 175 | 3.28 | 11.688 | 42.10 | 0.0 | 646 | 3354 | 6.80 | 1.8877 | N | 44.1 | 3956 | 2.53 |
| Ethyl Alcohol | 70 | 0.9128 | 13100 | 46 | 97 | 3.28 | 6.210 | 23.21 | 0.0 | 1172 | 2828 | 6.80 | 1.8191 | N | 44.1 | 3956 | 1.55 |
| Cyclohexane | 70 | 1.5945 | 20350 | 84 | 479 | 1.40 | 10.847 | 115.02 | 0.0 | 236 | 3764 | 6.80 | 0.6412 | N | 44.1 | 3956 | 6.29 |
| Styrene | 70 | 0.0931 | 18324 | 104 | 31 | 1.10 | 0.633 | 7.49 | 0.0 | 3633 | 367 | 6.80 | 0.5752 | N | 44.1 | 3956 | 0.74 |
| Toluene | 80 | 0.1732 | 18250 | 92 | 51 | 1.10 | 1.178 | 12.27 | 0.0 | 2217 | 1783 | 6.80 | 0.6528 | N | 44.1 | 3956 | 0.99 |
| Gasoline | 80 | 5.9000 | 19500 | 100 | 1985 | 1.00 | 40.136 | 476.50 | 0.0 | 57 | 3943 | 6.80 | 0.5727 | N | 44.1 | 3956 | 24.95 |
| Benzene --chiller | 40 | 0.6560 | 17986 | 78 | 172 | 1.41 | 4.463 | 41.17 | 0.0 | 661 | 3339 | 6.80 | 0.7371 | N | 44.1 | 3956 | 2.48 |

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Table III: BARGES LIKELY TO BE DECONTAMINATED BY HERCULES MAY CONTAIN THE FOLLOWING MATERIALS IN THE FUTURE

Lowest volatility (0 - 0.1 psia)---

| Material | Vapor Pr 80 F | Material | Vapor Pr 80 F |
|-------------------|------------------|--------------------|------------------|
| Ethylene glycol | 0.002 | 2-Ethylhexanol | 0.003 |
| Propylene glycol | 0.003 | Adiponitrile | 0.00002 |
| Diethylene glycol | 0.0002 | Dicyclopentadiene | 0.061 |
| Monoethanol amine | 0.008 | Xylenes | 0.045 |
| Diethanol amine | 0.00001 | Ethylbenzene | 0.045 |
| Kerosene | 0.030 | Cumene | 0.021 |
| No.2 Fuel Oil | 0.002 | Propylene tetramer | 0.050 |
| No.4 Fuel Oil | < .002 | Mineral spirits | 0.084 |
| No.6 Fuel Oil | < .002 | 2-Butoxyethanol | 0.019 |

Mid volatility (0.1 - 0.2 psia)---

| | | | |
|-----------|-------|----------------|--------|
| Styrene | 0.104 | Jet-A | 0.0172 |
| Toluene | 0.173 | Methyl styrene | 0.0565 |
| n-Butanol | 0.153 | Resin Oil | < 0.21 |

Higher volatility (0.2 - 0.65 psia)---

| | | | |
|-------------------|-------|-------------|-------|
| Naphtha (heavy) | 0.200 | Acetic acid | 0.334 |
| Ethanol | 0.600 | Monene | 0.21 |
| Methylethylketone | 0.653 | | |

Extreme volatility >0.65 psia---

| | | | |
|--------------------|---------|---------------|-------|
| VM&P Naphtha | 0.900 | Cyclohexane | 2.051 |
| BTX | 1.000 | Acrylonitrile | 2.259 |
| Benzene | 1.982 | Vinyl acetate | 2.392 |
| Dripolene | 1.0-2.5 | Raffinate | 3.600 |
| Pyrolysis gasoline | 1.0-2.5 | Acetone | 4.770 |
| Crude oil | 1.0-5.0 | MTBE | 5.160 |
| JP-4 | 2.000 | Gasoline | 5.900 |

Halogenated products

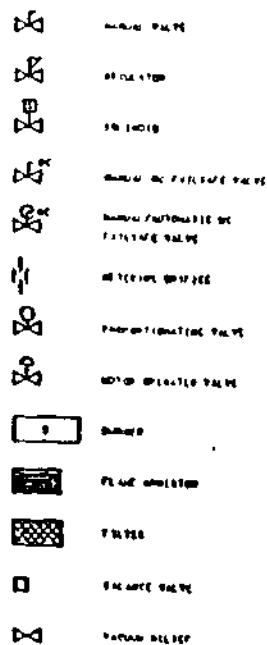
| | | | |
|-----------------------|-------|-------------------------|-------|
| Chlorobenzene | 0.253 | 1,1,2-Trichloroethylene | 1.540 |
| Perchloroethylene | 0.392 | Ethylene dichloride | 1.655 |
| 1,1,2-Trichloroethane | 0.490 | Carbon tetrachloride | 2.374 |
| 1,2-Dichloropropane | 1.089 | Chloroform | 4.100 |
| 1,1,1-Trichloroethane | 1.186 | Methylene chloride | 9.690 |

Miscellaneous Products

Materials falling into the above groups which are similar chemically, toxicologically or in odor properties to those permitted above.

Hercules will not attempt to handle barges in the Extreme volatility group until the safety technology is improved for such systems and that safe operations have been demonstrated. No chlorinated materials will be processed through the combustor until a complete permitted scrubber/neutralizer system is installed. The explosion risk of handling chlorinated materials is much less than the materials in the 3rd group. However due to the extremely low rate of processing of the highest volatility materials and the consequent high propane cost it is unlikely that Hercules will choose to process perhaps any materials with vapor pressures >1.0 psia.

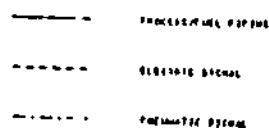
VALVE AND PIPING SYMBOLS



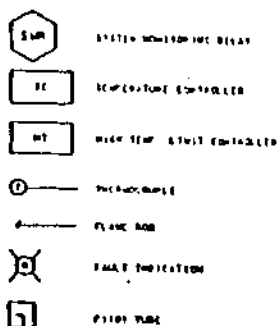
EQUIPMENT SYMBOLS



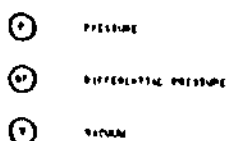
LINE SYMBOLS



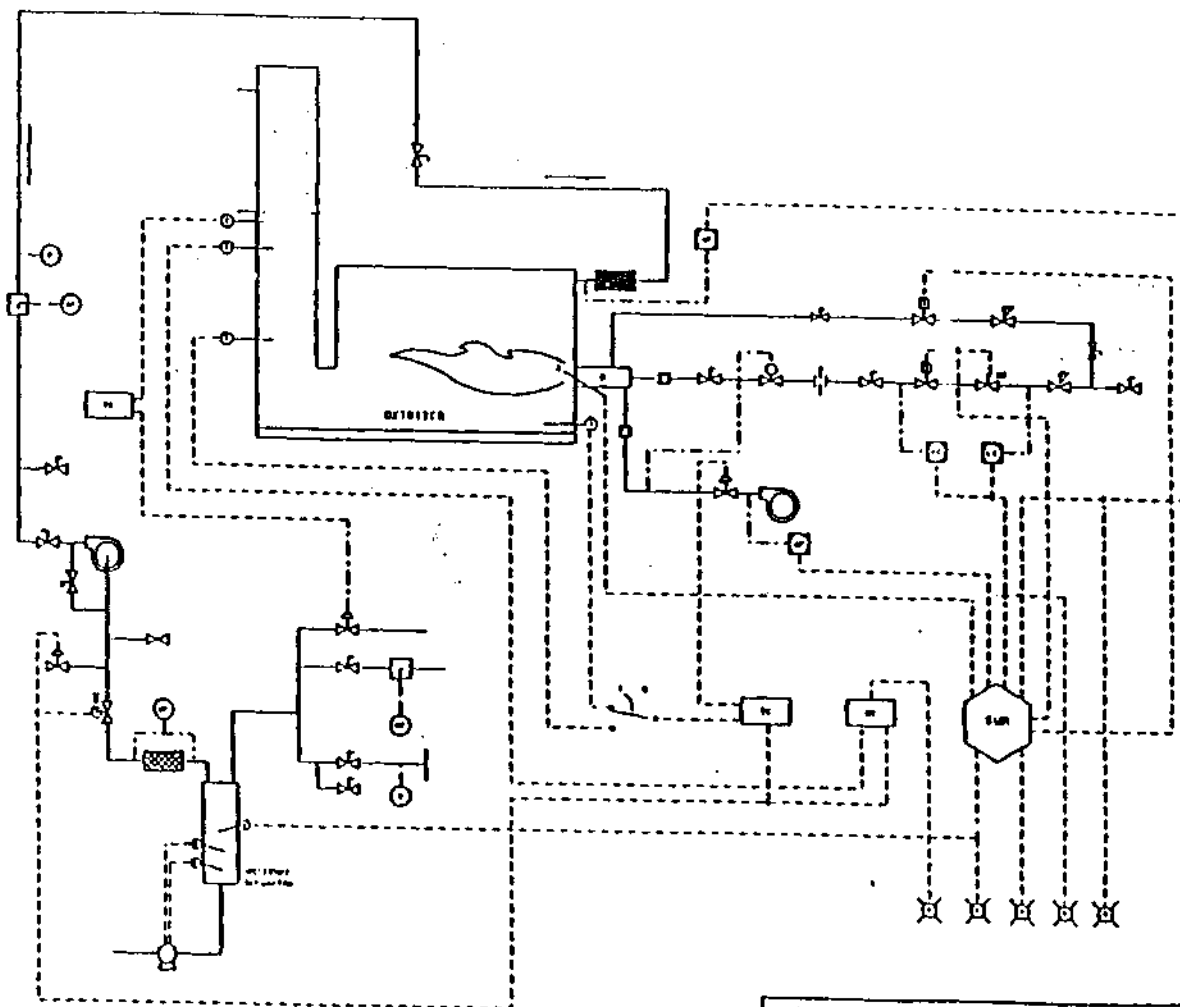
INSTRUMENT SYMBOLS



GAGE SYMBOLS



SWITCH SYMBOLS



NOTE: V.E.S., HEAT EXCHANGER, CATALYTIC, AND AUTO DILUTION OPTIONS ARE SHOWN

THERMTECH, INC.
THERMAL/CATALYTIC OXIDIZERS
KINGWOOD, TEXAS 1-800-655-8271

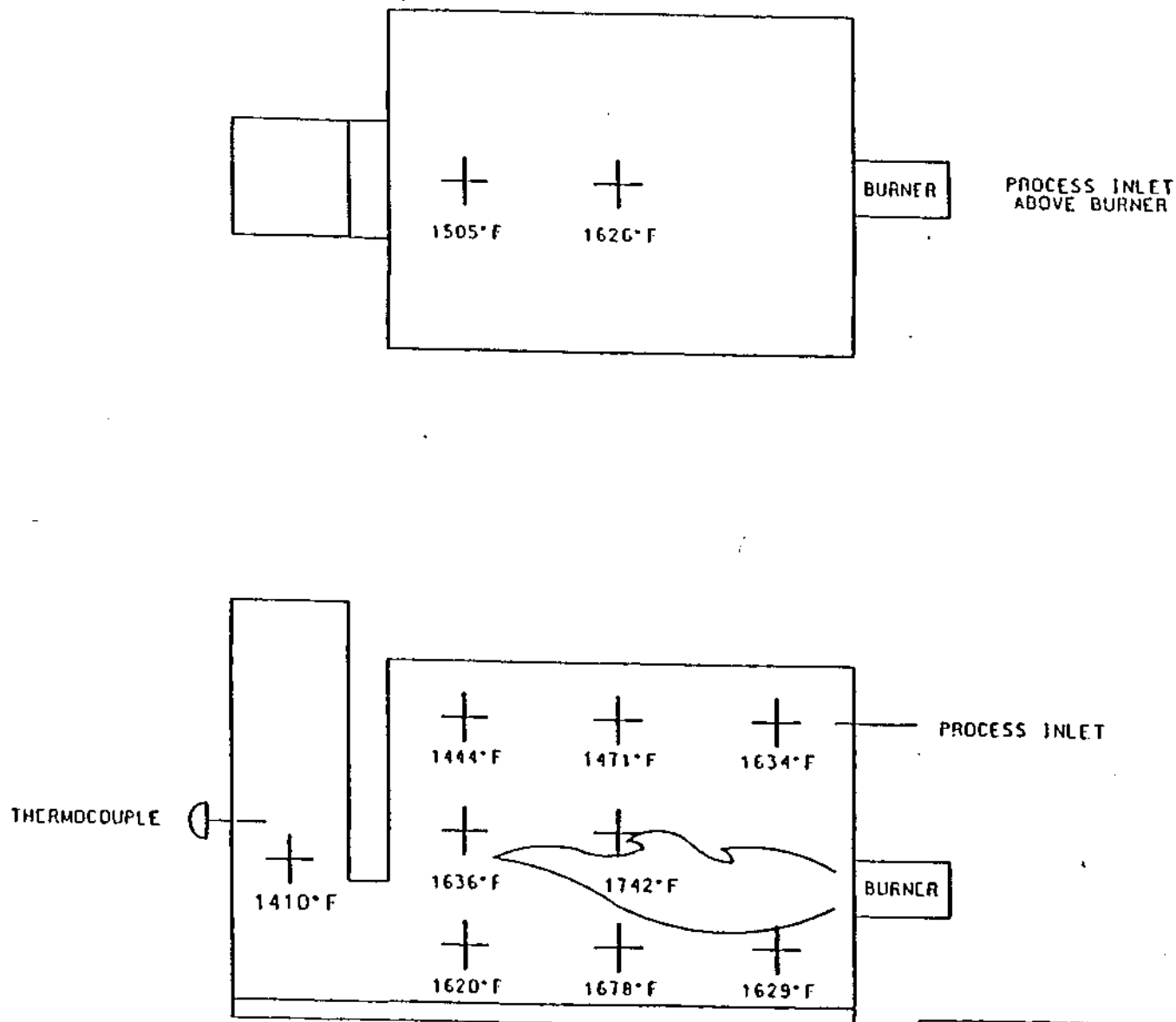
P&ID THERMAL/CATALYTIC OPERATION

| | | | |
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| DATE | BY | CHKD | APPD |
| 6/20/82 | N. T. S. | | |

1 OF 1


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OXIDIZER

FOR PURPOSE OF THIS TEMPERATURE PROFILE THE PROCESS INLET CONTAINED NO VOC'S.

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--------|
|  THERMTECH, INC. THERMAL/CATALYTIC OXIDIZERS KINCWOOD, TEXAS 1-800-659-8271 | | | |
| TEMPERATURE PROFILE | | | |
| DATE | TIME | BY | FOR |
| 8/2/96 | 14:00 | N.T.S. | |
| N/A | | | 1 OF 1 |

March 1, 1994

VAPOR CHECK

MODEL: VAC 400

GENERAL DATA

| | |
|--------------------------------------------------------|---------------------------------------------------|
| * SCFM rating | 4000 SCFM (113.3 m ³ /min) |
| * burners maximum output capability | 6.8 mmBTU/Hr |
| * burner turndown ratio | 20 to 1 |
| * combustion chamber I D | 72" x 72" x 120" (182.9cm x 182.9cm x 304.8cm) |
| * stack I D | 70" x 58" (177.8cm x 147.3cm) |
| * skid size | 85" x 259" (215.9cm x 657.9cm) |
| * velocity through 8" process inlet | |
| @ 2000 SCFM (56.6 m ³ /min) process stream | 5731 ft/sec (1747 m/sec) |
| @ 4000 SCFM (113.3 m ³ /min) process stream | 11461 ft/sec (3493 m/sec) |

THERMAL DATA

| | |
|----------------------------------------------------------------------------------|---------------------------------------------|
| * total ACFM @ 1400°F (760°C) | 14000 ACFM (396.5 m ³ /min) |
| * burner chamber volume required for 0.5 seconds retention time @ 1400°F (760°C) | 116.7 ft ³ (3.3 m ³) |
| * burner chamber volume required for 1.0 seconds retention time @ 1500°F (815°C) | 233.3 ft ³ (6.6 m ³) |
| * stack velocity | |
| @ 2000 SCFM (56.6 m ³ /min) process stream | 4.14 ft/sec (1.26 m/sec) |
| @ 4000 SCFM (113.3 m ³ /min) process stream | 8.28 ft/sec (2.52 m/sec) |
| * estimated weight | 11,000 lbs (4989 Kg) |

* The above data is intended to be used as general, guide line type information. For specific application proposal, please contact Thermtech, Inc..

001143

CALCULATION OF VOC EMISSIONS FROM COMBUSTOR STACK

The combustor will operate at a minimum of 1450° F with a 1-second residence time. This combination should yield a VOC destruction efficiency of > 95%. However for the overall capture/destroy cycle a conservative 90% efficiency will be assumed.

Since the entire suction line from the barge interior to the combustor blower will be under a small negative pressure losses to the atmosphere during degassing will be negligible.

From Table II the estimated total VOC emissions from the stack will be 4.04 tons/yr. With the 40 barges/month basis it is estimated that 42.8 hours of degassing and combustor operation will be required per month. Thus the emission rate to use for this source is:

$$4.04 \times 2000 / (45.8 \times 12) = 14.7 \text{ lbs/hr or:}$$

$$14.7 \times 453.6 / 3600 = 1.8522 \text{ grams per second.}$$

The stack volume will always be 4000 scfm or 14328 cfm at temperature. The stack temperature will be about 1400° F and the stack velocity will be about 508 fps (155 m/s).

CALCULATION OF COMBUSTOR NOX EMISSIONS

Therm-Tech literature on testing of their combustors shows the highest NOx level as 10.34 ppm in the stack. The operating level was 1410 °F. For the purposes of estimation 12 ppm will be used.

At 4000 cfm with zero fuel value from the barge educt vapors 389 cfm of propane will have been included to give fuel sufficient to reach the proper combustion temperature. Burning propane yields 9 volumes of flue gas for each 8 volumes of propane. So:

$$389 \times 9/8 = 438 \text{ cfm or:}$$

$$\text{an expansion of } 438 - 389 = 49 \text{ cfm.}$$

Plus volume from the barge = $49 + 4000 = 4049$ cfm (adjusted to 80 °F) total stack gas volume.

At 12 ppm the NOx emission is:

$$4049 \times 12/1000000 \times 60 = 2.9 \text{ ft}^3/\text{hr of NOx, or:}$$

$$2.9 / 394 \times 46 = .3386 \text{ lbs/hr (as NO}_2\text{)}$$

At 45.8 hrs/mo of operation:

$$.3386 \times 45.8 \times 12 = 186.1 \text{ lbs/yr} = 0.093 \text{ tons/yr.}$$

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FORM PI-2(74-7)

TABLE 6
BOILERS AND HEATERS

PERMITS PROGRAM

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------|---------------------------------------------------------|------------------------|----------------------------------------------|-----------------------------------------------------------|--|
| Type of Device: Package Steam Boiler, 125 HP | | | | | | Manufacturer: | |
| Number from flow diagram: H-1 | | | | Model Number: | | | |
| CHARACTERISTICS OF INPUT | | | | | | | |
| Type Fuel | Chemical Composition (% by Weight) | | Inlet Air Temp °F (after preheat) | | Fuel Flow Rate (scfm* or lb/hr) | | |
| Propane | C ₆ H ₈ | 100% | Ambient | | Average 87 #/hr | Design Maximum 188 #/hr | |
| | | | Gross Heating Value of Fuel | | Total Air Supplied and Excess Air | | |
| | | | (specify units) 21490 BTU/LB Liq. | | Average 469 scfm* 50 % excess (vol) | Design Maximum 1013 scfm* 50 % excess (vol) | |
| HEAT TRANSFER MEDIUM | | | | | | | |
| Type Transfer Medium | Temperature °F | | Pressure (psia) | | Flow Rate (specify units) lbs/hr | | |
| (Water, oil, etc.) | Input | Output | Input | Output | Average | Design Maxim | |
| Water | 70 | 3 | 14.7 | 125 | 2000 | 4313 | |
| OPERATING CHARACTERISTICS | | | | | | | |
| Ave. Fire Box Temp. at max. firing rate | Fire Box Volume(ft. ³), (from drawing) | | Gas Velocity in Fire Box (ft/sec) at max firing rate | | | Residence Time in Fire Box at max firing rate (sec) | |
| 1500°F | 250 | | 1.15 | | | 4.3 | |
| STACK PARAMETERS | | | | | | | |
| Stack Diameters | Stack Height | Stack Gas Velocity (ft/sec) | | | Stack Gas | Exhaust | |
| 12" | 12' | (@Ave. Fuel Flow Rate) | | (@Max. Fuel Flow Rate) | Temp °F | scfm | |
| | | 87 #/HR | | 188 #/HR | 500 | 373 | |
| CHARACTERISTICS OF OUTPUT | | | | | | | |
| Material | Chemical Composition of Exit Gas Released (% by Volume) | | | | | | |
| | CO ₂ | 6.6 | A | 1.0 | | | |
| | H ₂ O | 12.4 | O ₂ | 7.0 | | | |
| | N ₂ | 73.0 | | | | | |
| 100.0 % | | | | | | | |
| Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled. | | | | | | | |

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

*Standard Conditions: 70°F, 14.7 psia

001146

08/93

ABRASIVE BLAST CLEANING

PERMITS PROGRAM

CALCULATION OF SANDBLASTING EMISSIONS

Basis: In its peak year of 1992 Hercules used 5000 tons of standard blasting sand. The proposed work load in this permit is one third less than 1992. Therefore the basis of this calculation will begin with 3350 tons/yr. Calculations follow:

New basis 3350 tons/yr of Black Beauty sand.

This is conservative because the reference suggests that a smaller quantity of Black Beauty will replace a larger quantity of standard sand. However no attempt will be made to take advantage of this potential gain.

Per the information accompanying the Thompson reference the emissions of PM10 will only be:

Fraction airborne from Black Beauty---

$$146/5931 \times (1-.905) = .00234$$

So: Quantity airborne from Hercules activities using 100% Black Beauty sand---

$$3350 \times .00234 = 7.84 \text{ tons/year.}$$

The size distribution of this fraction will be approximately:

| | | % |
|---------|-----------|-------|
| < 30 mu | 3.3 units | 34.7 |
| < 20 mu | 1.9 units | 20.0 |
| < 15 mu | 1.8 units | 18.9 |
| < 10 mu | 2.5 units | 26.3 |
| | ----- | ----- |
| | 9.5 | 99.9 |

Thus the PM10 fraction of this airborne dust will be 26.3% and the quantity of PM10 emitted will be:

$$7.84 \times .263 = 2.1 \text{ tons/year.}$$

It is estimated that actual sandblasting will occur for about 40 hours/week or 2000 hours/year. This is:

$$2.1 \times 2000 / 2000 = 2.1 \text{ lbs/hr or:}$$

$$2.1 \times 453.6 / 3600 = 0.265 \text{ grams/second.}$$

These figures will be used for modeling purposes.

CALCULATION OF PAINT USAGE BY HERCULES

Basis: 40 Barges handled per month

2 30000 bbl, 2 20000 bbl, 36 10000 bbl

Only 6 per month require any painting

Of this: - one per quarter is totally repainted,
remainder only small spot jobs

Full painting 30000 - 150 gal paint & primer

20000 - 100 gal paint & primer

10000 - 75 gal paint & primer

Average big job is 100 gallons

Small repairs average 5 gal paint & primer

Consumptn: Big jobs = 4 x 100 = 400 gal

Small jobs = 68 x 5 = 340 gal

Annual total = 740 gal/mo

Assume 2/3 paint, 1/3 primer

Paint VOC avg 2.36 #/gal, primer avg 5.7 #/gal

Add: 6 gal/mo xylene used in clean up

Annual VOC Emissions

= 740 x .67 x 2.36 + 740 x .33 x 5.7

+ 6*7.1*12 = 3073 lbs/yr = 1.54 tons/yr

Short term VOC emissions: Based on 2 airless guns
Painting 5 gal/hr each (1 primer, 1 topcoat). Av
VOC = 4 lbs/gal. Each gun puts out VOC = 20 lbs/hr.
Assume 90 % evaporates onsite. VOC emission rate
for each gun = 18 lbs/hr.

Estimated distribution:

Mixed C8 aromatics 90 %

Other solvents 10 %

Including: (each <2%)

Ethanol

Toluene

Methylethylketone

n-Butanol

Propylene glycol monomethylether

Methylisoamyl ketone

High flash naphtha

High flash aromatic naphtha

i-Butanol

n-Butyl acetate

001149

EPA STORAGE TANK LOSS CALCULATION PROGRAM from AP-42, 4th Ed. 9/85
Including API 2517 2/89, AP42-4B vers 2.0, Copyright (c) 1991, by H.M.Walker

NAME: H.M. WALKER

CASE RUN: 04-25-1994 AT: 00:10:30

CASE TITLE: HERCULES RECOVERED PRODUCT TANK GROUP

STORAGE TANK SUMMARY :

| | | |
|-------------------------------|------------|-----------|
| (1) ROOF TYPE | - FIXED | |
| (2) DIAMETER | - 48.42 | FEET |
| (3) CAPACITY | - 55100 | GALLONS |
| | - 1311.905 | BARRELS |
| (4) AVERAGE TURNOVERS | - 1.75 | (ANNUAL) |
| (5) TEMP. INCR. (DEG F) | - 0 | () |
| (6) AVERAGE OUTAGE | - 4 | FEET |
| (7) TANK PAINT FACTOR | - 1.4 | F(P) |
| (8) FIXED ROOF LIQUID FACTORS | - 1 | BREATHING |
| | - 1 | WORKING |

LIQUID DATA SUMMARY:

| | | |
|-------------------------|----------------|-------------------------|
| (1) LIQUID TYPE | - VOL.ORG.LIQ. | |
| (2) TRUE VAPOR PRESSURE | - 1.700 | PSIA |
| (3) DENSITY | - 7.00 | LB/GAL or 37.09 DEG API |
| (4) MOLECULAR WEIGHT | - 60.00 | LB/LB MOL |

METEOROLOGICAL DATA SUMMARY:

FOR: GALVESTON, TX

| | | |
|-------------------------------|--------|-------|
| (1) AVERAGE DAILY TEMP CHANGE | - 9.5 | DEG F |
| (2) AVERAGE ANNUAL TEMP | - 69.8 | DEG F |
| (3) AVERAGE WIND VELOCITY | - NA | MPH |
| (4) AVERAGE STATION PRESSURE | - 14.7 | PSIA |

EVAPORATIVE EMISSIONS SUMMARY:

| TYPE EMISSION | LBS/HR | LBS/YR | TONS/YR |
|--------------------------------|--------|--------|---------|
| (1) FIXED ROOF- BREATHING LOSS | 0.279 | 2447. | 1.223 |
| (2) FIXED ROOF- WORKING LOSS | 0.027 | 236. | 0.118 |
| ----> FIXED ROOF TOTAL LOSS | 0.306 | 2683. | 1.341 |

Carbon efficiency 99.70

So: $.01 \times 2683 = 26.83 \text{ \# / yr}$

group total emissions.

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PERMITS PROGRAM

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TABLE 30

CERTIFICATION OF ESTIMATED CAPITAL COST AND PERMIT APPLICATION FEE
Regulation VI, Rule 116.141

Include estimated cost of the equipment and services that would normally be capitalized according to standard and generally accepted corporate financing and accounting procedures.

Estimated Capital CostDIRECT COSTS

Process and control equipment not previously owned by the applicant and permitted in Texas

\$ _____

Auxiliary equipment, including exhaust hoods, ducting, fans, pumps, piping, conveyors, stacks, storage tanks, waste disposal facilities, and air pollution control equipment specifically needed to meet permit and regulation requirements

Freight charges

Site preparation (including demolition), construction of fences, outdoor lighting, road and parking areas

Installation (including foundations), erection of supporting structures, enclosures or weather protection, insulation and painting, utilities and connections, process integration and process control equipment

Auxiliary buildings, including materials storage, employee facilities, and changes to existing structures

Ambient air monitoring network

INDIRECT COSTS

Final engineering design and supervision and administrative overhead

Construction expense (including construction liaison), securing local building permits, insurance, temporary construction facilities and construction clean-up

Contractor's fee and overhead

TOTAL ESTIMATED CAPITAL COST = < \$ 2,000,000

I certify that the total estimated capital cost of the project as defined in Texas Natural Resource Conservation Commission Rule 116.141 is equal to or less than the above figure.

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PERMITS PROGRAM

Signed by:

Thomas E. H.

Title:

Vice Pres. - Opr.

Company:

Hercules Offshore Corp.

Date:

6/3/96

| Estimated Capital Cost | Permit Application Fee | PSD Application Fee |
|---------------------------|------------------------|------------------------|
| Less than \$300,000 | \$450 (minimum fee) | \$1,500 (minimum fee) |
| \$300,000 to \$50,000,000 | 0.15% of capital cost | - - - - - |
| \$300,000 to \$15,000,000 | - - - - - | 0.5% of capital cost |
| Greater than \$50,000,000 | \$75,000 (maximum fee) | - - - - - |
| Greater than \$15,000,000 | - - - - - | \$75,000 (maximum fee) |

PERMIT APPLICATION FEE (from table above) = \$ 450⁰⁰

Rev. 09/30/93

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Paid and on deposit with TNRCC

TABLE 2
MATERIAL BALANCE

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This material balance table is used to quantify possible emissions of air contaminants. Special emphasis should be placed on potential air contaminants, for example: If feed contains sulfur, show distribution to all products. Please relate each material (or group of materials) listed to its respective location in the process flow diagram by assigning point numbers (taken from the flow diagram) to each material.

| LIST EVERY MATERIAL INVOLVED IN EACH OF THE FOLLOWING GROUPS | Point No. from Flow Diagram | Process Rate (lbs/hr or SCFM) standard conditions: 70°F 14.7 PSIA. Check appropriate column at right for each process. | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|
| | | | Measurement | Estimation | Calculation |
| 1. Raw Materials - Input <u>Barge Vapors - VOC</u> <u>Barge Liquids - VOC</u> <u>Paint + Solvents</u> <u>Black Beauty Sand</u> | | <u>6727 # / month</u> <u>26425 gallons / yr</u> <u>740 gallons / month</u> <u>3350 Tons / year</u> | | | |
| 2. Fuels - Input <u>Propane - Combustor</u> <u>Propane - Boiler</u> | | <u>1798 gallons / month</u> <u>1080 gallons / month</u> | | | |
| 3. Products & By-Products - Output <u>Flue gas - combustor</u> <u>Flue gas - Boiler</u> | | } Remainder | | | |
| 4. Solid Wastes - Output <u>Waste Blasting Sand</u> | | <u>3348 Tons / yr</u> | | | |
| 5. Liquid Wastes - Output | | | | | |
| 6. Airborne Waste (Solid) - Output | | | | | |
| 7. Airborne Wastes (Gaseous) - Output <u>Combustor Stack VOC</u> <u>Tank Vapors (from c canister)</u> <u>Paint Solvents</u> <u>PM10 - Sand blasting</u> | | <u>< 673 # / month</u> <u>27 # / yr</u> <u>256 # / MO</u> <u>2.1 Tons / yr</u> | | 001152 | |

STATEMENT OF REGULATORY COMPLIANCE

General Rules:

The facility will be operated in accordance with the General Rules relating to circumvention nuisance, notification requirements for major upset, sampling, emissions inventory requirements, sampling procedures and terminology, compliance with EPA standards, NAAQS, inspection fees, emission fees and all other applicable General Rules.

Regulation I: The operation of this facility may result in occasional visible emissions but not in excess of the opacity limits specified in Reg I.

Regulation II: Sulfur compounds are not present in any raw material, fuel, or any barge to be cleaned. Therefore Reg II is not applicable.

Regulation III: No compounds of beryllium, inorganic fluorine, or lead are in any way involved with the operations of Hercules. Therefore Reg III does not apply.

Regulation IV: All motor vehicles owned or operated by applicant will comply with the applicable provisions of this regulation.

Regulation V: The proposed facility is located in Brazoria County and is regulated by the following:

Sections 115.112-.119 concerning VOC storage

All VOC tanks have submerged fill pipes and vent through a carbon canister vent control system.

Sections 115.421-.429 concerning surface coating operations

Surface coating operations are mainly on the exterior of marine vessels hence are exempted from the specific VOC content limits of 115.421 (a)(9) by 115.427 (D).

Sections 115.352-.359 concerning fugitive emissions

Since Hercules has <250 components in VOC service it is exempt under 115.357 (7).

Sections 115.541-.549 concerning barge degassing and cleaning.

Section 115.549 concerning compliance schedules provides that compliance with 115.541 &ff will not be required until 11/15/96. This provision was inserted to permit the industry time to develop safe techniques to meet this difficult, dangerous abatement requirement. Hercules believes that it will be the first in the industry to go to the field with a full scale combustor for barge vapors. Because such a program suffers delays, frequent need for equipment modification, repairs and high fuel

costs; Hercules needs the flexibility to operate under Section 115 as current until 11/15/94. This is so because it will be unable to secure economic relief via higher customer charges until all of its competitors come under the same requirements after 11/15/94.

Regulation VII: The only possible sources of NOx on the property are a propane-fired 125 HP boiler and the propane-fired combustor. Both operate at temperatures well below the range of significant NOx generation and operate for only a few hours/year. The estimated total emissions for the two are <0.5 tons/yr.

Regulation IX: The proposed facility will not emit a significant quantity of CO from either of its two combustion units.

Regulation XI: The proposed facility is not a hazardous waste or solid waste management facility. Therefore Reg. XI does not apply.

Impact on Schools: There are no schools within 3000 feet of the proposed facility.

Rule 116.111 (2): Measurement of emissions

If measurement of emissions from the combustor is required by TNRCC, Hercules will make such a measurement. Since the stack will be at 1400 °F with a very high velocity special techniques will be required to make such a measurement.

Rule 116.111 (3) BACT

Please refer to section IV.D of this application.

Rule 116.111 (4) NSPS

NSPS is not applicable to this facility.

Rule 116.111 (5) NESHAP

The emissions from the proposed facility will meet the requirements of all applicable NESHAP as listed under 40 CFR Part 61. Benzene is the only such material which might be handled. Hercules will demonstrate that the combustor will achieve 98% reduction when processing benzene containing barge vapors which fall under the NESHAP requirements.

Rule 116.111 (6) Performance

The facility will perform as represented in the permit application with respect to all matters of atmospheric emissions. Hercules will so demonstrate if required to do so.

Rule 116.111 (7) Nonattainment Review

This requirement is not applicable since actions taken under this permit will result in a large reduction in atmospheric emissions of all types. This is particularly true of VOC emissions from barge degassing vapors which will be reduced by at least 90% when burned in the combustor.

Rule 116.111 (8) PSD Review

Brazoria County is in an attainment area for PM10 and NOx. Hercules is not a major source of either pollutant. Therefore a PSD review is not required.

Rule 116.111 (9) Air Dispersion Modeling

Hercules will furnish modeling results as required by TNRCC after an official modeling conference is completed.

K. HAUER

H.M. WALKER & ASSOCIATES, Inc.

Environmental Consultants

3321 East Bayou Drive
Dickinson, Texas 77539
Telephone: (713) 337-1177

October 5, 1996

Ms. K.C. Hauer
Chemical Section, Permits Section
TNRCC
P.O. Box 13087
Austin, TX 78711-3087

Re: CO and PM from combustor

Dear Ms. Hauer:

I used AP42 data for propane combustion to represent the two pollutants from the fuel and AP42 data for #4 fuel oil to represent the combustion of the barge vapors. This should be conservative.

Using 1800 gallons of propane per month and 45.3 hrs/month of operation (from Tables I and II of the application) I calculate the emission rates for the combustor to be:

| | CO | PM |
|--------------|------|------|
| | ---- | ---- |
| Pounds/month | 8.42 | 7.72 |
| Pounds/hour | .186 | .170 |
| Tons/year | .051 | .046 |

I filled out Table 4 and it follows. However the real details will be found in Table 1 of the application.

Sincerely,

Harry M. Walker

Harry M. Walker, Ph.D.
Environmental Consultant

FORM PI-2 (72-9)

TABLE 4
COMBUSTION UNITS

| OPERATIONAL DATA | | | | |
|-----------------------------------------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------------------|---------------------------------------------------|
| Number from flow diagram: | | Model Number(if available): | | |
| Name of device: <i>Combustor</i> | | Manufacturer: <i>Therm Tech, Inc.</i> | | |
| CHARACTERISTICS OF INPUT | | | | |
| Waste Material* | Chemical Composition | | | |
| | Material | Min. Value Expected lb/hr | Ave. Value Expected lb/hr | Design Maximum lb/hr |
| | 1. | | | |
| | 2. | | | |
| | 3. | | | |
| | 4. | | | |
| Gross Heating Value of Waste Material (Wet basis if applicable) | Btu/lb | Air Supplied for Waste Material | Minimum SCFM (70°F & 14.7 psia) | Maximum SCFM (70°F & 14.7 psia) |
| | | | | |
| Waste Material of Contaminated Gas <i>VOC in air</i> | Total Flow Rate lb/hr | | Inlet Temperature <i>70 - 100 °F</i> | |
| | Minimum Expected <i>0</i> | Design Maximum <i>4000 cfm</i> | Minimum Expected | Design Maximum |
| Fuel | Chemical Composition | | | |
| | Material | Min. Value Expected lb/hr | Ave. Value Expected lb/hr | Design Maximum lb/hr |
| | 1. <i>VOC vapor</i> | <i>0</i> | <i>148</i> | <i>400</i> |
| | 2. | | | |
| | 3. | | | |
| Gross Heating Value of Fuel | Btu/lb <i>air</i> <i>15000</i> | Air Supplied for Fuel | Minimum SCFM (70°F & 14.7 psia) <i>200</i> | Maximum SCFM (70°F & 14.7 psia) <i>4000</i> |
| | | | | |

*Describe how waste material is introduced into combustion unit on an attached sheet. Supply drawings, dimensioned and to scale to show clearly the design and operation of the unit.

See Table 1 for details 001158



FAX TRANSMITTAL

DATE: August 14, 1996 NUMBER OF PAGES (including this cover sheet: ☐

TO: Name Dr. H. M. Walker
 Organization Environmental Consultant
 FAX Number 713 337 1177

FROM: TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
 Name Kate Hauer
 Division/Region Office of Air Quality/NSR Program
 Telephone Number 512-239-1372
 FAX Number 512-239-1300

NOTES:
Dr. Walker,

If you have any questions about the deficiency letter, please call me.

Thank You,
Kate Hauer

001159

Mr. Thomas E. Hord
Vice President
HERCULES MARINE SERVICES
CORPORATION
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide an Material Safety Data Sheet (MSDS) for each compound used including sand, Black Beauty sand, and the paint used.
2. I cannot understand the Fraction Airborne from Black Beauty calculation in the Calculation of Sandblasting Emissions. Please explain this calculation.
3. BACT for sandblasting was not included. BACT for sandblasting includes:
 1. No use of silica sand.
 2. A shroud fifteen feet higher than the item being blasted.Please address this issue.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these

001160

representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 30 days of the date of this letter may result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, a new PI-1 application form and all the information requested above will be required. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

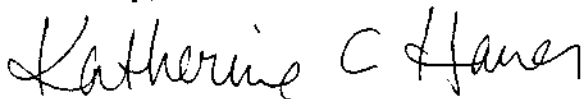
Charles Davis

Page 2

Re: Permit No. 27589

Thank you for your cooperation in this matter. If you have questions concerning the review or this notice, please contact me at (512) 239-1372.

Sincerely,



Katherine C. Hauer
Chemical Section
New Source Review Division

cc: Ms. Karen Atkinson, Air Program Manager, Houston
H. M. Walker, PhD., Environmental Consultant, 3321 E. Bayou Dr., Dickinson, Texas
77539

KH/

Record No. 43911

001161

HERCULES MARINE SERVICES / 9P.

VENDOR

TNRCC

CHECK NO. 1879
001879

| JR REF. NO. | YOUR INV. NO. | INVOICE DATE | INVOICE AMOUNT | AMOUNT PAID | DISCOUNT TAKEN |
|-------------|---------------|--------------|----------------|-------------|----------------|
| 1647 | 1996 | 05/22/96 | 450.00 | 450.00 | .00 |

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JUN 04 1996

PERMITS PROGRAM

764

Check total

450.00

001162



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
FORM PI-1, GENERAL APPLICATION -- AIR QUALITY PERMIT

A PERMIT TO CONSTRUCT MUST BE APPROVED BEFORE ANY ACTUAL WORK IS BEGUN ON THE FACILITY. This is not a stand alone document. Please refer to the "Form PI-1, Permit Application Instructions" manual (Instructions) for specific details to complete this application. Please print or type all information. All information requested herein must be completed and submitted before public notification procedures may be authorized. Please contact the CORE Section of the Permits Division with any questions at 512/908-1000 (FAX No. 512/908-1300). Written inquiries may be addressed to: Texas Natural Resource Conservation Commission, Office of Air Quality, Permits Division, P.O. Box 13087, Austin TX 78711-3087.

VERY IMPORTANT!

- Is CONFIDENTIAL information being submitted with this application? ☐ -YES ☒ -NO
If YES, is each "confidential" page so marked in big red letters? ☒ -YES ☐ -NO
• Has a CORE checklist been attached to this application? ☐ -YES ☐ -NO
• Is this application in response to, or related in any way to, a Notice of Violation at this location? ☐ -YES ☒ -NO. If YES, date of Notice of Violation: _____
Also, if YES, pursuant to Rule: _____

Please furnish the following information pertaining to this facility SITE:

1. Please estimate the net number of new jobs which will be created in the community as a result of the operation of the facility authorized by this application: 30

2. Name of elected State Senator: Buster Brown

3. Name of elected State Representative: Tom Delay

Please furnish the following information pertaining to Compliance History:

1. Submit a 5-year Compliance History in accordance with Regulation VI, Rule 116.120-116.126 for all facilities classified in Section V.C.2 of the PI-1 form below.

I. TYPE OF APPLICATION: ☒ -CONSTRUCTION PERMIT ☐ -AMENDMENT, Permit No. _____

A. PERMIT ISSUED TO: HERCULES MARINE SERVICES CORPORATION

(Entity legally responsible for permit, i.e., Owner or Operator of the facility)

Permittee's Texas State Comptroller's Tax ID No.: _____

Permittee's address (Person, Title, Address): 906 Marlin Freeport, Texas 77541

Telephone: (409) 233 - 6371 FAX: (409) 233 - 6375

Permittee's Technical Contact (Person, Title, Address): Dr. H. M. Walker,
Environmental Consultant 3321 E. Bayou Dr., Dickinson, Texas 77539

Telephone: (713) 337 - 1177 FAX: (713) 337 - 1177

B. OWNER OF FACILITY: HERCULES OFFSHORE CORPORATION

(If different from permittee, include name of permittee/owner of facility)

Owner's Texas State Comptroller's Tax ID No.: 02-078636-1

Owner's address (Person, Title, Address): 11011 Richmond Suite 500, Houston, TX.
77042 Thomas J. Seward, II, President

C. Principal Company Product or Business: Barge Cleaning and Repair

Plant SIC Code: 4491

II. FACILITY PHYSICAL LOCATION:

A. Name of plant or site: Hercules Marine Services Corporation

B. Street Address: 906 Marlin Freeport, Texas 77541

C. Nearest City: Freeport County: Brazoria Site Zip Code: 77541

D. Latitude: 28° 58' 01" N Longitude: 95° 17' 17" W (must be to nearest second)

E. Plant Site TNRCC Air Quality Account Number: BL - 01 - 118V F 277.030
N 3206.303

III. FACILITY TYPE AND OPERATING SCHEDULE:

A. Name of facility to be permitted: Hercules Marine Services Corporation

B. Facility Type (Check One): ☒ Permanent, ☐ Portable.

C. Facility Operating Schedule: (24) Hours/day; (7) Days/week; (52) Weeks/year
() Seasonal - explain: _____

D. Start Dates (Proposed/Actual): Construction: 02/01/95 (P/A) _____
Operation: 11/01/95 (P/A) _____

IV. FACILITY CLASSIFICATION (Check only one block):

A. ☐ New Permitted Facility - New grass roots facility at the

B. ☒ New Permitted Facility - Modification of existing

C. ☐ Amendment to Permitted Facility. Permit No(s). _____

D. ☐ Change in Location of Permitted Facility. Permit No(s). _____
Location of Present Facility: Same as above

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V. COMPLIANCE HISTORY:

A. ☐ Exemption claimed under Rule 116.121, or

B. ☒ Existing Site => 5 years old. TNRCC will compile Compliance History, or 001163

C. ☐ New Site (This is a new grassroots site with no operating history), or

D. ☐ Existing Site < 5 years old.

If "C" or "D", does applicant have similar facilities in Texas? ☐ -YES ☒ -NO.

1. If YES, list TNRCC Air Quality Account No.(s): _____

2. If NO, attached one of the following:

a. ☐ Compliance History for similar sites in other States. If none, then:

b. ☐ Compliance History as required by Regulation VI, Rule 116.122(b).

(Over)

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

June 18, 1996

Mr. Thomas E. Hord
Vice President
HERCULES MARINE SERVICES
CORPORATION
906 Marlin
Freeport, Texas 77541

Re: Administrative Review
Permit Application
Permit No. 32768
Barge Cleaning and Repair
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This is in response to your application received on June 4, 1996, and to acknowledge receipt of your permit fee in the amount of \$450.00.

We have completed our initial review and find that there is sufficient information to declare your application administratively complete.

Accordingly, your request has been referred to the New Source Review **Chemical** Section for technical evaluation and review under 30 Texas Administrative Code Chapter 116.

Unless otherwise notified, it will expedite the handling of your request if you will now direct all communications regarding this matter to Ms. Kate Hauer, who has been assigned as the project engineer. To further expedite review, you are welcome to fax the requested information to the above engineer at (512) 239-1300.

Please note that this letter does not represent a technical review of your application, but rather determines that sufficient information has been submitted to justify the start of the technical

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Mr. Thomas E. Hord

Page 2

June 18, 1996

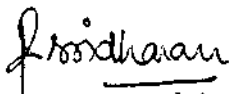
Re: Permit No. 32768

review. Please be aware that the technical review and evaluation may result in requests for additional information (see the enclosed **Technical Completeness Guidelines**). You will be contacted if additional information is required to complete the review.

Please remember that all of the information which you submit, whether on paper or in electronic form, will become part of the public record unless it is clearly marked as confidential. If you submit any proprietary information, please make certain that it is marked confidential and is separated from the non-confidential information. Please make a reference to the account ID number of your facility (shown in the reference block in this letter) in all correspondence with this office and all TNRCC Regional Offices.

If you have any further questions concerning this matter, please contact the designated project engineer at (512) 239-1372.

Sincerely,



Sridharan Raj
CORE Section
New Source Review Division
Texas Natural Resource Conservation Commission

SR/ms

Enclosures

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton

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TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

TECHNICAL COMPLETENESS GUIDELINES

Submitting an administratively complete application is a necessary first step toward getting your permit or amendment approved. The application must also be technically complete and correct before it can be sent forward for approval. Because of the wide variety of permit types and the case-by-case nature of the permit review process, it is impossible to specify what is required for technical completeness for every application. However, an understanding of the technical review process will help you to determine what information will be needed for your application to be declared technically complete.

There are three major parts to the technical review process. The first part of the review verifies that all **emission sources** have been identified and the **emission rates** have been correctly calculated. The permit engineer uses some or all of the following information to complete this part of the review: process description, process flow chart, Table 1(a), material usage rates table, Material Safety Data Sheets (MSDS), and the emission calculations.

After the emission sources have been identified and evaluated, the permit engineer begins reviewing the proposed control technology. The application of the **best available control technology** (BACT) for all permitted emission sources is required by 30 Texas Administrative Code Section 116.111(3).

Once the TNRCC and the applicant agree on the appropriate controls for the facility, an off-property **impacts analysis** is performed for all emission sources. A computer-based mathematical model is used to predict the off-property impacts (concentrations) for each air contaminant. The permit engineer may require the applicant to perform dispersion modeling based on the proposed emissions from the facility. The TNRCC Modeling Section has established modeling protocol and **must** be consulted before any official modeling is performed. The predicted off-property concentrations of the proposed emissions may be submitted to the TNRCC Toxicology and Risk Assessment Section for a toxicological review.

For new permits and substantial modifications to existing permits, the permit engineer may require the applicant to have two **public notice** advertisements published in a newspaper with local circulation and post signs at the facility site for a 30-day public comment period while a 15 day period may be required for permit renewals. During the comment period, the public has the right to request an informal public meeting or contested case hearing concerning the application.

When all of the issues described above have been resolved, the permit engineer will draft the **permit special conditions** for review and comment by the applicant. The regional office of the TNRCC and local programs with jurisdiction over the facility also review, comment on, and sometimes suggest changes to these draft special conditions. Once all parties agree on the permit special conditions, the new or amended permit is issued.

June 27, 1996

The Honorable J. E. (Buster) Brown
Texas Senate
P.O. Box 12068
Austin, Texas 78711

Re: Permit Applications

Dear Senator Brown:

Pursuant to the requirements of Section 382.0516 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, I am pleased to send to you information concerning the recent receipt of applications for permits for facilities that may emit air contaminants and which are located in your district.

The following are applications for permits to construct new facilities or renewals:

| <u>PERMIT NO.</u> | <u>COMPANY NAME</u> | <u>CITY</u> | <u>TYPE OF FACILITY</u> |
|-------------------|--------------------------------------|-------------|-------------------------|
| 32768 | Hercules Marine Services Corporation | Freeport | Barge Cleaning & Repair |

If you need further information, please contact me. Thank you for your interest in air pollution control.

Sincerely,



Victoria J.L. Hsu, P.E.
Director
New Source Review Division
Office of Air Quality

Enclosure

001167

June 27, 1996

The Honorable D.R. (Tom) Uher
Texas House of Representatives
2219 Avenue G
Bay City, Texas 77414

Re: Permit Applications

Dear Mr. Uher:

Pursuant to the requirements of Section 382.0516 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, I am pleased to send to you information concerning the recent receipt of applications for permits for facilities that may emit air contaminants and which are located in your district.

The following are applications for permits to construct new facilities or renewals:

| <u>PERMIT NO.</u> | <u>COMPANY NAME</u> | <u>CITY</u> | <u>TYPE OF FACILITY</u> |
|-------------------|--------------------------------------|-------------|-------------------------|
| 32768 | Hercules Marine Services Corporation | Freeport | Barge Cleaning & Repair |

If you need further information, please contact me. Thank you for your interest in air pollution control.

Sincerely,



Victoria J.L. Hsu, P.E.
Director
New Source Review Division
Office of Air Quality

Enclosure

001168

TEXAS AIR CONTROL BOARD
PERMIT APPLICATION SUMMARY

DATE: 06-07-96
TIME: 10:20:47

PAGE: 1

*GENERAL PERMIT INFORMATION **HAUER, KAGE.**

PERMIT: 32753 ENGR: ~~RAJAGOPALAN, S. K.~~

GROUP: CORE ID:BL0113V

ISSUED TO: HERCULES MARINE SERVICES CORPORATION

UNIT NAME: BARGE CLEANING & REPAIR

OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR

LAT: 28-58-31 LONG: 095-17-17 REGION: 12 COUNTY: BRAZORIA

NEAR CITY: FREEPORT LOC: 906 MARLIN

*PERMIT/SITE CONTACT INFORMATION:

PERSON: THOMAS E. HORD

ADDR1: 906 MARLIN

TITLE: VICE PRESIDENT

ADDR2:

CITY: FREEPORT

STATE: TX

ZIP: 77541 PHONE: (409)233-6371

** CONSTRUCTION **

TYPE APPL(C,S,X): (C)

APPL RECD : 06-04-96

DEFIC LTR SNT :

SUPP INFO REQ :

SUPP INFO RECD :

APPL CMPLT :

COMP LTR SNT :

PUB NTC SNT :

PUB NTC PUB :

PUB HEAR(R,H) : ()

CNST TYPE(C,X,S): ()

DISP () :

CNST START DATE :

** OPERATING **

OPERATION START :

OPER APPL RECD :

OPER APPL CMPLT :

DISP(I,D): ()

OPP TYPE(R,S) : ()

* I= ISSUED D=DENIED *

* E=EXPIRED *

* C=CNST S=SPECIAL *

* X=EXEMPT R=OPER *

** CONTINUANCE **

NOTICE MAILED :

APPL RECD :

DEFIC LTR SNT :

SUPP INFO REQ :

SUPP INFO RECD :

APPL CMPLT :

COMP LTR SNT :

PUB NTC SNT :

PUB NTC PUB :

PUB HEAR(R,H) : ()

DISP(I,D,E):() :

*EMISSIONS CHANGED :

*REMARKS:

*OTHER PERMIT DATES:

APP/PERMIT VOIDED:

REASON:

APP ON HOLD UNTIL:

REASON:

CNST STOPPED UNTIL:

VOID/HOLD CODES:

PD-PLT DISMANTLED

CR-COMPANY REQUEST

TI-TIME EXPIRED

DD-DATA DELAY

TD-TECH DIFFICULTY

RE-REISSUED

NR-NO RESPONSE

*PERMIT TYPES/STANDARDS:

NEW MAJ SOURCE:> 100 TPY:

SLC: 4471

MAJOR MODIFICATION:

PORTABLE:

RELATED PERMITS: SUFFIX REASON.

NON-ATTAIN REVIEW:

WDS:

TACS:

CHG LOC:

INSIGNIFICANT EMISSIONS:

RECHAP:

PCD-TX:

CHG OWN:

FUEL CONVERSION:

TOXIC MATERIALS:

STD EX NO.:

*AIR CONTAMINANT INFORMATION:

NAME

CODE

MAX ALLOWABLE RATE

LBS/HR

TONS/YR

ACTUAL

TONS/YR

*APPROPRIATE EQUIPMENT:

001169

Request for Comments -- Compliance History
TNRCC -- New Source Review Division
Phone: (512) 239-1000 Fax: (512) 239-1400

RFC0666
CMB
JUL 06 1996

Submitted by: Sridharan Raj E-Mail Initials: SRAJAGOP Phone: x 1237
Date Request Submitted: June 6, 1996 Region: 12
Comments Deadline: 7/21/96 Date Application Received by New Source Review: 6/4/96

COMPLIANCE: Please return comments ASAP, but no later than the comments deadline which is 45 days from the date comments are requested. Permit disposition will proceed after comments are received or after the comments deadline has past. Engineer may request faster response if needed.

PERMIT TYPE:

☒ Construction ☐ Amendment ☐ Revision ☐ Renewal ☐ Other _____

SITE CLASSIFICATION:

☐ New Site ☐ Existing Site < 5 yrs. (treat as new site) ☒ Existing Site ≥ 5 yrs.

PERMIT NO.: 32768 TNRCC ACCOUNT NO.: BL-0118-V
Company Name: HERCULES MARINE SERVICES CORPORATION
Plant Name: _____ County: Brazoria
Location: _____
Unit Name: BARGE CLEANING & REPAIR
Plant Contact: Mr. Hord Phone: 713-337-1177

Current on Fee
JAS 6-11-96

* NOTE TO THE ENGINEER: Compliance will return this form if an account number has not been assigned and included on this form.

Operating Schedule: 24 Hours/Day 7 Days/Week 52 Weeks/Year ☒ Continuous
Night Operation: ☐ Yes ☐ No
Date Comments Returned to New Source Review: _____

KCH1

Request for Comments -- Compliance History
RESPONSE

Date Received: 06/12/96
Compliance Officer's Name (Please Print): Tel Cruston E-Mail Initials: TCruston Phone: 3217

NOV INFO.:

Type of Site: A) ☒ Existing Site ≥ 5 yrs. B) ☐ Existing Site < 5 yrs. (treat as new site) C) ☐ New Site
If B or C, are similar facilities in ☐ Texas or ☐ U.S.? If any facility is in TX, complete the following:
1) Formal action recommendation submitted during last 5 years and still pending ☐ Attached ☐ None
2) Agreed Board Orders adopted in last 5 years ☐ Attached ☐ None
3) Lawsuits referred to the Attorney General in last 5 years ☐ Attached ☐ None
Any unresolved NOV not in 1, 2 or 3? ☒ No ☐ Yes NOV Date(s): _____
If Yes, comment on possibility of formal action to resolve (include rule #'s): _____

If a new site and company has no similar Texas facilities, then is U.S. compliance history supplied by the company attached? ☐ Yes ☐ No

REVIEW:

Recommendation based on Compliance History:

- ☒ Compliance history does not appear to need any further consideration for this permit review. 001170
☐ Further evaluation of the compliance history is warranted for this permit review.
☐ For renewals: Compliance history demonstrates/does not demonstrate substantial compliance with TCAA and existing permit

FKGO REPORT

COMPLIANCE HISTORY REVIEW - FORMAL ACTIONS COMPLETED SINCE 1989 ON ACCOUNT NO. 010318V

**** NO RECORDS WERE FOUND ****

001171

Page No. 1
5/12/96

****VIOLATION REVIEW****

LIST OF VIOLATIONS
AGAINST THE NAMED COMPANY

| DOCT NUMBER | RULE NUMBER | COMPANY NAME | REGION | NOV DATE | RESOLVED |
|----------------|----------------|----------------------------------|--------|----------|----------|
| EL0118V | 101.4 | HERCULES REAL ESTATE CORPORATION | 120 | 09/19/89 | 10/02/89 |
| EL0118V | 382.091(A) | HERCULES REAL ESTATE CORPORATION | 120 | 09/19/89 | 10/02/89 |
| EL0118V | 116.4 | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |
| EL0118V | 116.4 | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |
| EL0118V | 116.4 | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |
| EL0118V | 116.4 | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |
| EL0118V | 115.112(A) (1) | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |
| EL0118V | 115.132(A) | HERCULES REAL ESTATE CORPORATION | 120 | 09/03/92 | 10/19/92 |

001172

RFI

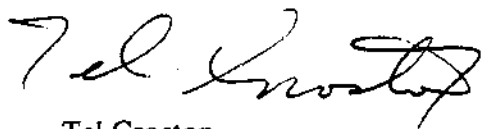
06/13/96

Hercules Marine Services Corp.

Acct. # BL-0118-V

Permit # 32768

Hercules had one NOV in the last five years, it was resolved informally. There is no problem with this application.



Tel Croston

Enforcement Coordinator

Air Section / Enforcement Division

001173



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
FORM PI-1, GENERAL APPLICATION -- AIR QUALITY PERMIT

A PERMIT TO CONSTRUCT MUST BE APPROVED BEFORE ANY ACTUAL WORK IS BEGUN ON THE FACILITY. This is not a stand alone document. Please refer to the "Form PI-1, Permit Application Instructions" manual (Instructions) for specific details to complete this application. Please print or type all information. All information requested herein must be completed and submitted before public notification procedures may be authorized. Please contact the CORE Section of the Permit Division with any questions at 512/908-1000 (FAX No. 512/908-1300). Written inquiries may be addressed to: Texas Natural Resource Conservation Commission, Office of Air Quality, Permit Division, P.O. Box 13087, Austin TX 78711-3087.

VERY IMPORTANT!

- Is CONFIDENTIAL information being submitted with this application? ☐ -YES ☒ -NO
If YES, is each "confidential" page so marked in big red letters? ☒ -YES ☐ -NO
• Has a CORE checklist been attached to this application? ☐ -YES ☐ -NO
• Is this application in response to, or related in any way to, a Notice of Violation at this location? ☐ -YES ☒ -NO. If YES, date of Notice of Violation: _____
Also, if YES, pursuant to Rule: _____

Please furnish the following information pertaining to this facility SITE:

1. Please estimate the net number of new jobs which will be created in the community as a result of the operation of the facility authorized by this application: 30

2. Name of elected State Senator: Buster Brown

3. Name of elected State Representative: Tom Delay

Please furnish the following information pertaining to Compliance History:

1. Submit a 5-year Compliance History in accordance with Regulation VI, Rule 116.120-116.126 for all facilities classified in Section V.C.2 of the PI-1 form below.

I. TYPE OF APPLICATION: ☒ -CONSTRUCTION PERMIT ☐ -AMENDMENT, Permit No. 100

A. PERMIT ISSUED TO: HERCULES MARINE SERVICES CORPORATION

(Entry legally responsible for permit, i.e., Owner or Operator of the facility)

Permittee's Texas State Comptroller's Tax ID No.: _____

Permittee's address (Person, Title, Address): 906 Marlin Freeport, Texas 77541

Telephone: (409) 233 - 6371 FAX: (409) 233 - 6375

Permittee's Technical Contact (Person, Title, Address): Dr. H. M. Walker,
Environmental Consultant 3321 E. Bayou Dr., Dickinson, Texas 77539

Telephone: (713) 337-1177 FAX: (713) 337-1177

B. OWNER OF FACILITY: HERCULES OFFSHORE CORPORATION

(If different from permittee, indicate name of person(s) or company(ies) of applicant)

Owner's Texas State Comptroller's Tax ID No.: 02-078636-1

Owner's address (Person, Title, Address): 11011 Richmond Suite 500, Houston, TX.
77042 Thomas J. Seward, II, President

C. Principal Company Product or Business: Barge Cleaning and Repair

Plant SIC Code: 4491

II. FACILITY PHYSICAL LOCATION:

A. Name of plant or site: Hercules Marine Services Corporation

B. Street Address: 906 Marlin Freeport, Texas 77541

C. Nearest City: Freeport County: Brazoria Site Zip Code: 77541

D. Latitude: 28° 58' 01" N Longitude: 95° 17' 17" W (must be to nearest second)

E. Plant Site TNRCC Air Quality Account Number: BC - 01174 F 277.030
N 3206.303

III. FACILITY TYPE AND OPERATING SCHEDULE:

A. Name of facility to be permitted: Hercules Marine Services Corporation

B. Facility Type (Check One): ☒ Permanent, ☐ Portable.

C. Facility Operating Schedule: (24) Hours/day; (7) Days/week; (52) Weeks/year
() Seasonal - explain: _____

D. Start Dates (Proposed/Actual): Construction: 02/01/96 (P/A) _____
Operation: 11/01/96 (P/A) _____

IV. FACILITY CLASSIFICATION (Check only one block):

A. ☐ New Permitted Facility - New grass roots facility at the

B. ☒ New Permitted Facility - Modification of existing

C. ☐ Amendment to Permitted Facility. Permit No(s) _____

D. ☐ Change in Location of Permitted Facility. Permit No(s) _____

Location of Present Facility: Same as above

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V. COMPLIANCE HISTORY:

A. ☐ Exemption claimed under Rule 116.121, or

B. ☒ Existing Site => 5 years old. TNRCC will compile Compliance History, or

C. ☐ New Site (This is a new grassroots site with no operating history), or

D. ☐ Existing Site < 5 years old.

If "C" or "D", does applicant have similar facilities in Texas? ☐ -YES ☒ -NO.

1. If YES, list TNRCC Air Quality Account No.(s): _____

2. If NO, attached one of the following:

a. ☐ Compliance History for similar sites in other States. If none, then:

b. ☐ Compliance History as required by Regulation VI, Rule 116.122(b).

(Over)

PERMITS PROGRAM

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VI. SUBMIT THE FOLLOWING GENERAL INFORMATION:

- A.1 Submit a current area map as specified in the Instructions.
Are any schools located within 3000 feet of this facility? ☐-YES ☒-NO.
- A.2 Submit a plot plan of the plant property as specified in the Instructions.
- B. Submit emission data, including fugitive emissions and stack parameters, on Table 1(a). Attach emission calculations and information showing how emissions were determined. See Instructions for further details.
- C. Submit an analysis of Best Available Control Technology, including the estimated installed capital and operating costs for all abatement equipment associated with the facility. See Instructions for further details.

- D. **Franchise Tax.** Submit a copy of a Certificate of Good Standing from the State Comptroller's Office with each application if the permit is to be issued to a corporation. See Instructions if you are not a corporation or for further information.
- E. **Permit Fee.** Enclose required fee, fee certification and estimated capital cost (Table 30); or furnish explanation why fee is not required. (See Regulation VI Rule 116.141.)

VII. SUBMIT (A) PROCESS FLOW DIAGRAM, (B) PROCESS DESCRIPTION AND (C) MATERIAL BALANCE AS SPECIFIED IN THE INSTRUCTIONS (see Instructions concerning submittal of confidential information.)

VIII. GENERAL APPLICATION REQUIREMENTS:

Submit itemized information and/or analysis that will demonstrate that all general application requirements as specified in Rule 116.111 of TNRCC Regulation VI are met. Each requirement in Rule 116.111 must be addressed in this application. See Instructions for further details. Atmospheric dispersion modeling may be required as part of the air quality impact analysis per Rule 116.111(9).

Is this facility a MAJOR SOURCE/MODIFICATION with regard to one of the following:

1. §116.111(7) - Non-Attainment ☐-YES ☒-NO
2. §116.111(8) - Prevention of Significant Deterioration ☐-YES ☒-NO.

IX. APPEAL PROCESS:

Commission Rule 116.114(a)(3) should be consulted for the procedure to be used to appeal the failure of the agency to process an application within the prescribed time limits.

- I. A copy of this application and all attachments must be sent by the applicant to the EPA Region 6 office in Dallas if PSD or Non-Attainment Review is applicable in any form, the appropriate TNRCC Regional Office and to any local air pollution control program having jurisdiction. Copies of the application were sent to:

EPA Region 6 Office in Dallas : ☐-YES ☒-Not applicable.
TNRCC Regional Office (city) sent to: TNRCC 5555 West Loop, Suite 300, Hou, Tex 77401
Copies sent to these local programs: 1. _____
☐-NOT APPLICABLE. 2. _____

- XI. §116.110(d). PE Seal. Is the estimated capital cost of the project for which application is made greater than \$2 million dollars? ☐-YES ☒-NO

If YES, application must be submitted under seal of a Texas registered Professional Engineer, unless exemption is claimed pursuant to the Texas Engineering Practice Act.
☐ - Exemption is claimed pursuant to Section _____ of the TEPA.

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JUN 04 1996

XII. I, Thomas E. Hord Vice President

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Health & Safety Code (THSC), Chapter 382, Texas Clean Air Act, as amended, or any of the air quality Rules and Regulations of the Texas Natural Resource Conservation Commission or any local governmental ordinance or resolution enacted pursuant to the Texas Clean Air Act. I further state that I have read and understand Section 382.091, THSC, which defines CRIMINAL OFFENSES for certain violations, including intentionally or knowingly making or causing to be made false material statements or representations in this application, and Section 382.092, THSC, pertaining to CRIMINAL PENALTIES.

DATE 6/3/96 SIGNATURE Thomas E. Hord

001175

NOTE - ORIGINAL SIGNATURE IN INK IS REQUIRED.

VENDOR

MARINE SERVICES CORP.

CHECK NO. 1879
001879

TNRCC

| OUR REF. NO. | YOUR INV. NO. | INVOICE DATE | INVOICE AMOUNT | AMOUNT PAID | DISCOUNT TAKEN |
|--------------|---------------|--------------|----------------|-------------|----------------|
| 1647 | 1996 | 05/22/96 | 450.00 | 450.00 | .00 |

RECEIVED

JUN 04 1996

PERMITS PROGRAM

Check total

450.00

HERCULES MARINE SERVICES CORP.

11011 RICHMOND, SUITE 500 PH. 713-789-7983
HOUSTON, TEXAS 77042-6709SOUTHWEST BANK OF TEXAS, N.A.
HOUSTON, TEXAS 77227-7459
35-1125-1130

1879

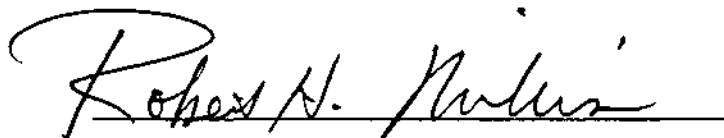
CHECK NO. 001879 CHECK DATE 05/22/96 VENDOR NO. TNRCC

PAY

CHECK AMOUNT

FOUR HUNDRED FIFTY AND 00/100 DOLLARS*****

*****450.00

TO THE
ORDER
OFTEXAS NATURAL RESOURCE
CONSERVATION COMMISSION

⑈001879⑈ ⑆113011258⑆ ⑈007 679 1⑈

001176

APPLICATION FOR A TNRCC CONSTRUCTION PERMIT

FOR

HERCULES MARINE SERVICES CORPORATION

OF

FREEPORT, TEXAS

108

Submitted May 30, 1995

Application prepared by

H.M. Walker, Ph.D.

Environmental Consultant

RECEIVED
JUN 04 1996

PERMITS PROGRAM

001177

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| | | |
|-----------|------------------------------------------------------------------------|----------|
| 0 | Core checklist ----- | Tab 0 |
| PI-1 | Form PI-1 ----- | PI-1 |
| V | Compliance history ----- | V |
| VI-A | Maps, Plot plan ----- | VI-A |
| VI-B | Table 1(a) ----- | 1(a) |
| VI-C | BACT Analysis ----- | BACT |
| VII-A,B-1 | Process flow diagram, description --- Combustor ----- | Combus |
| VII-A,B-2 | Process flow diagram, description --- Sandblasting, Surface coating | SB/SC |
| VII-A,B-3 | Process flow diagram, description --- Boiler, tankage ----- | BL/TN |
| VII-C | Material balance ----- | MBal |
| VIII | Section 116 requirements ----- | 116 |

001178

NOTE TO APPLICANT: Please mark an "X" in the column labeled "Applicant use" to indicate that the information has been provided. You may also use the column labeled "Comments & Discussion" to explain your action.



**TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PERMITS DIVISION - CORE SECTION
AIR QUALITY PERMIT APPLICATION
ADMINISTRATIVE COMPLETENESS CHECKLIST**

CAAPSTUCC011-01CHECKLIST.B03 Rev. 08/21/93

| | | | | | |
|-------------------------------------|------------------------|-----------------------------------|------------------|------------------------------------------|-------------------|
| COMPANY <u>Hercules Marine Corp</u> | | PROJ No.: _____ | PROJ TYPE: _____ | CORE ENGR: _____ | RECORD No.: _____ |
| REGION _____ | COUNTY <u>Brazoria</u> | Tech. Contact: <u>H.M. Walker</u> | | Phone: <u>713 337-1177</u> | |
| DATE RECD by CORE: _____ | | Comments _____ | | DATE ADMIN COMP: _____ | |
| DATE RECD by TECH. ENGR: _____ | | Comments _____ | | TECH. ENGR: _____ TECHNICAL SECT.: _____ | |

<----- TNRCC use only ----->

| PI-1 REF | REQUIRED INFORMATION | Applicant use | DATE ADMIN COMPLETE | NOT COMPLETE | NOTHING SUBMITTED | COMMENTS & DISCUSSION |
|-------------|------------------------------------------|------------------|------------------------|-----------------|----------------------|--------------------------------------------------|
| | CONFIDENTIAL Information? ⁽¹⁾ | <u>No</u> | | | | [] YES [] NO |
| | CONFIDENTIAL pages marked? | <u>No</u> | | | | [] YES [] NO |
| | CORE Checklist attached | <u>✓</u> | | | | [] YES [] NO |
| | NOV related notification | <u>No</u> | | | | [] YES [] NO |
| | Net number of new jobs created | <u>✓</u> | | | | |
| | Name of elected State Senator | <u>✓</u> | | | | |
| | Name of elected St. Representative | <u>✓</u> | | | | |
| I. | Type of Application | <u>✓</u> | | | | [] PERMIT [] AMENDMENT |
| | A. Permittee Name, Tax ID & Addr. | <u>✓</u> | | | | |
| | Technical Contact (addr, phone) | <u>✓</u> | | | | |
| | B. Owner Name, Tax ID & Addr. | <u>✓</u> | | | | |
| | C. Product/Business & SIC Code | <u>✓</u> | | | | |
| II. | A. Plant/Site Name | <u>✓</u> | | | | |
| | B. Address of Facility | <u>✓</u> | | | | |
| | C. Nearest City, County and Zip | <u>✓</u> | | | | |
| | D. Latitude and Longitude | <u>✓</u> | | | | |
| | E. TNRCC Air Quality Acct. No. | <u>✓</u> | | | | |
| III. | A. Name of Facility | <u>✓</u> | | | | |
| | B. Facility Type | <u>✓</u> | | | | [] PERMANENT [] PORTABLE |
| | C. Operating Schedule | <u>✓</u> | | | | |
| | D. Start Dates | <u>✓</u> | | | | |
| IV. | A. New Permit Unit - grass roots | <u>✓</u> | | | | CONST DATE _____ OPER DATE _____ |
| | B. New Permit Unit - non-permitted | <u>✓</u> | | | | New grass roots facility at this location. |
| | C. Amendment to permitted facility | <u>✓</u> | | | | Modification of exist. non-permitted facility. |
| | D. Change in Location | <u>✓</u> | | | | [] Present Permit No. _____ |
| V. | A. Compliance History - Exempt | <u>✓</u> | | | | [] Present Permit No. _____ |
| | B. Comp. Hist. - site > 5 yr old | <u>✓</u> | | | | [] YES [] NO |
| | C. Comp. Hist. - new site | <u>✓</u> | | | | [] YES [] NO |
| | D. Comp. Hist. - site < 5 yr old | <u>✓</u> | | | | [] YES [] NO |
| VI. | A.1 Area Map | <u>✓</u> | | | | |
| | School within 3,000 feet? | <u>No</u> | | | | [] YES [] NO |
| | A.2 Plot Plan | <u>✓</u> | | | | |
| | B. Emission Data & Table 1(a) | <u>✓</u> | | | | |
| | C. BACT Analysis | <u>✓</u> | | | | |
| | D. Franchise Tax Certificate | <u>✓</u> | | | | [] N/A [] Certificate good thru ____/____/____ |
| | E. Permit Fee Required? <u>Paid</u> | <u>✓</u> | | | | [] YES [] NO |
| | Fee Cert. & Table 30 | <u>✓</u> | | | | |
| VII. | A. Process Flow Diagram | <u>✓</u> | | | | |
| | B. Process Description | <u>✓</u> | | | | |
| | C. Material Balance | <u>✓</u> | | | | |
| VIII. | 116.111(1) TNRCC Rules & Regs | <u>✓</u> | | | | |
| | 116.111(2) Emissions Measurement | <u>✓</u> | | | | |
| | 116.111(3) BACT Analysis | <u>✓</u> | | | | |
| | 116.111(4) WSPS | <u>✓</u> | | | | |
| | 116.111(5) WESHAPS | <u>✓</u> | | | | |
| | 116.111(6) Facility Performance | <u>✓</u> | | | | |
| | 116.111(7) Non-Attainment review | <u>✓</u> | | | | |
| | 116.111(8) PSD review | <u>✓</u> | | | | MAJOR SOURCE/MODIFICATION? [] YES [] NO |
| | 116.111(9) Impacts/Modeling | <u>✓</u> | | | | MAJOR SOURCE/MODIFICATION? [] YES [] NO |
| X. | Copy to EPA Region 6 office | <u>✓</u> | | | | [] YES [] N/A |
| | Copy to TNRCC Regional Office | <u>✓</u> | | | | [] YES City _____ |
| | Copy to Local Program(s) | <u>NONE</u> | | | | [] YES [] N/A |
| XI. | Application "sealed" by P.E.? | <u>NA</u> | | | | [] YES [] NO |
| XII. | Authorizing Signature/Date | <u>✓</u> | | | | |

These items will not result in the application being considered administratively deficient; however, they MUST be submitted prior to final action or approval of the application.

(1) CONFIDENTIAL information MUST be clearly marked on each page and separated from non-confidential information. The application must include in the non-confidential files a topic outline describing the confidential information. To be considered confidential, each page must be marked "CONFIDENTIAL" at the time of submittal.

001179

Version 09/01/93

HERCULES COMPLIANCE HISTORY

HISTORY OF THE HERCULES SITE:

The Hercules facility has existed on its present site since 1970 which datewise makes it a "grandfathered" facility in the view of the TNRCC. This means that it existed and operated prior to 1971 when the first requirements for air pollution abatement, permits, etc became effective. Grandfathered facilities were exempt from such requirements and have ever remained so until such time as they change their mode of operation in some manner, which triggers the need to apply for a formal construction permit and later for an operating permit. One TNRCC representative has indicated that the agency has no record of proper registration of the facility under the 1987 grandfathered source registration edict.

The earliest records which I have yet found date from 1981 when Fish Engineering owned the operation. A plot plan dated 1981 is substantially identical with the present facility as far as can be ascertained.

On 2/14/89 Hercules Offshore Drilling Company was granted a permit exemption (No. X-13561) for a barge cleaning facility. This action was supposedly based on an application dated 4/19/82 (presumably by Fish). It was also noted that this permit was associated with a "change of ownership" of the facility. Specifically listed sources were a boiler H-1 (oil fired) and the cleaning area designated as AREA-1. It was apparently designated as a major facility (more than 100 tons of air emissions). The allowables listed were much less being: particulates 0.17 t/yr, VOC .09 t/yr, NOx 1.88 t/yr, SO2 17.31 t/yr and CO .86 t/yr --all from the boiler. The cleaning area was assigned NM VOC-U 2.09 t/yr. These values were in gross error. The boiler emissions are far too high, the cleaning area emissions are too low as long as barge degassing is included. The 100 ton figure may have been in the ball park. However one must remember that in those days emissions from surface coating or from vessel degassing had not yet been recognized by the regulatory agencies as officially existing. Gas-freeing was discussed in the Fish application as a routine procedure applicable to essentially to all barges. It was also mentioned that emissions from gas freeing were not estimated because EPA at that time was legally restrained (presumably by the Coast Guard) from regulating marine vessel emissions. No specific mention of sandblasting and surface coating activities was found in the 1981/2 discussion but such activities were clearly part of services which included "barge repair", "cutting", and "welding". It is assumed that they were always a major function of Fish and later Hercules. In later documents TNRCC refers to this permit number as X-3561. This X permit was granted on the basis that the facility "will not make a significant contribution to air contaminants in the atmosphere".

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001180

SASHKAE

PERMITS PROGRAM

Sometime, apparently between 1982 when a photograph shows only industrial marine activities in the area, and 1989; a waterfront residential development was constructed along some old dredged marine industrial channels lying to the southwest of Hercules. Apparently the boat slips included in the residential development was formerly used industrially. The photo referenced above clearly shows a barge in the slip which is now lined with several waterfront homes.

It may be that Fish owned all of the property between the present Hercules boundary and the present residential area boundary but did not sell the intervening block to Hercules. The status of the intervening block is being investigated.

Apparently in this period Mr. Bob Casales became the owner of the house on the old slip about 500' from Hercules. Although he knowingly moved into a going industrial/marine area he apparently assumes that only he has rights and that industry and their employees have none. He has become a chronic complainer to anyone who will listen. The TNRCC is forced by the laws and their policies to listen (but not necessarily to agree). Since his arrival he has registered perhaps 50 such complaints plus complaints to the Freeport city government, its fire department, its police department and other agencies which he feels might offer a sympathetic ear. More seriously he has directed his complaints to Dow Chemical Company management (sometimes late at night), who has long been Hercules principle customer. As a result of this pressure and Dow's public "green" posture Dow has ceased sending barges to Hercules for cleaning and/or repair and sends them to Houston to competitors who operate just as Hercules always did.

As a result Hercules immediately engaged a consultant with the assignment to immediately get a TNRCC permit for a full vapor collection/destruction system which would meet the future Reg V standards and hopefully end the complaints and Dow's reluctance. Unfortunately the first consultant proved to be unable to do the job and after wasting about one year, his inadequate attempt at an application was cancelled by the TNRCC permit engineer. The first consultant was fired by Hercules and the undersigned assumed the responsibility for a new application at the end of February.

During this period Hercules business dwindled and its staff has been reduced from a peak of perhaps 25 employees to just 10 key individuals who have been retained in order to form the nucleus of the Hercules staff when a permit is secured and the business can again start up. Of course there is great pressure by all of the Hercules employees to get the permit applied for quickly. Frankly they are all greatly concerned that bankruptcy will occur and the will no longer have jobs. The undersigned also feels this pressure and is doing everything in his power to move the permit along in any form which will satisfy Dow and get Hercules going again.

I understand that as a result of Casales numerous complaints that Hercules has more TACB/TNRCC inspections than any other facility in the State. Casales frequent complaints against Hercules involve sandblasting dust, odors, toxics in the air, noise, etc. TACB/-TNRCC has extended him every courtesy and has sent inspectors (from Houston) to check out every complaint. They mounted a period of intensive surveillance and made perhaps 10 successive inspection within a period of less than 10 days. Often Freeport or other local officials accompanied the TNRCC inspectors.

Surprisingly Hercules has been found nearly blameless through all of this. They received a NOV (notice of violation) in 1989 for nuisance dust carry over. This was resolved with an agreement on the part of Hercules to abstain from blasting when the wind was toward Casales residence. No fine or other action was involved. One of the later intense surveillances involved 3 TACB inspectors (1 from Austin) who reviewed everything (5/13/92). A NOV was issued for poor record keeping, operation of the boiler for more than 147 hours in the year (How this restriction came about in the X-permit is beyond me.), lack of submerged fill pipes in the recovered organic tanks and lack of a proper cover on an oil-water separator. Hercules remedied all of these items promptly. No fine was assessed.

Essentially no specific complaint of Mr. Casales was ever confirmed by any inspector. These frequently involved odors, claims of sandblasting dust on the Casales property, noise, mere activity, etc. None of the various agencies involved confirmed any specific complaint.

At one time TACB took dust wipings from Casales auto, house, etc and subjected them to extensive (and expensive) analyses. They turned out to be typical road dust. No evidence of Hercules sources was found.

During this period Hercules mounted an expensive program of ambient air analysis which turned up nothing of significance. Apparently this was done without any pre-agreement on the part of TACB that such analytical work could prove anything one way or another. In the undersigned's judgement this effort was based on bad advice and was largely a waste of money.

While TNRCC is forced to humor Casales and react to his calls, it appears however that he has lost much credibility with them. He has not been able to generate any significant or repeated support from his neighbors. I believe that he is a decreasing threat to Hercules although not yet insignificant.

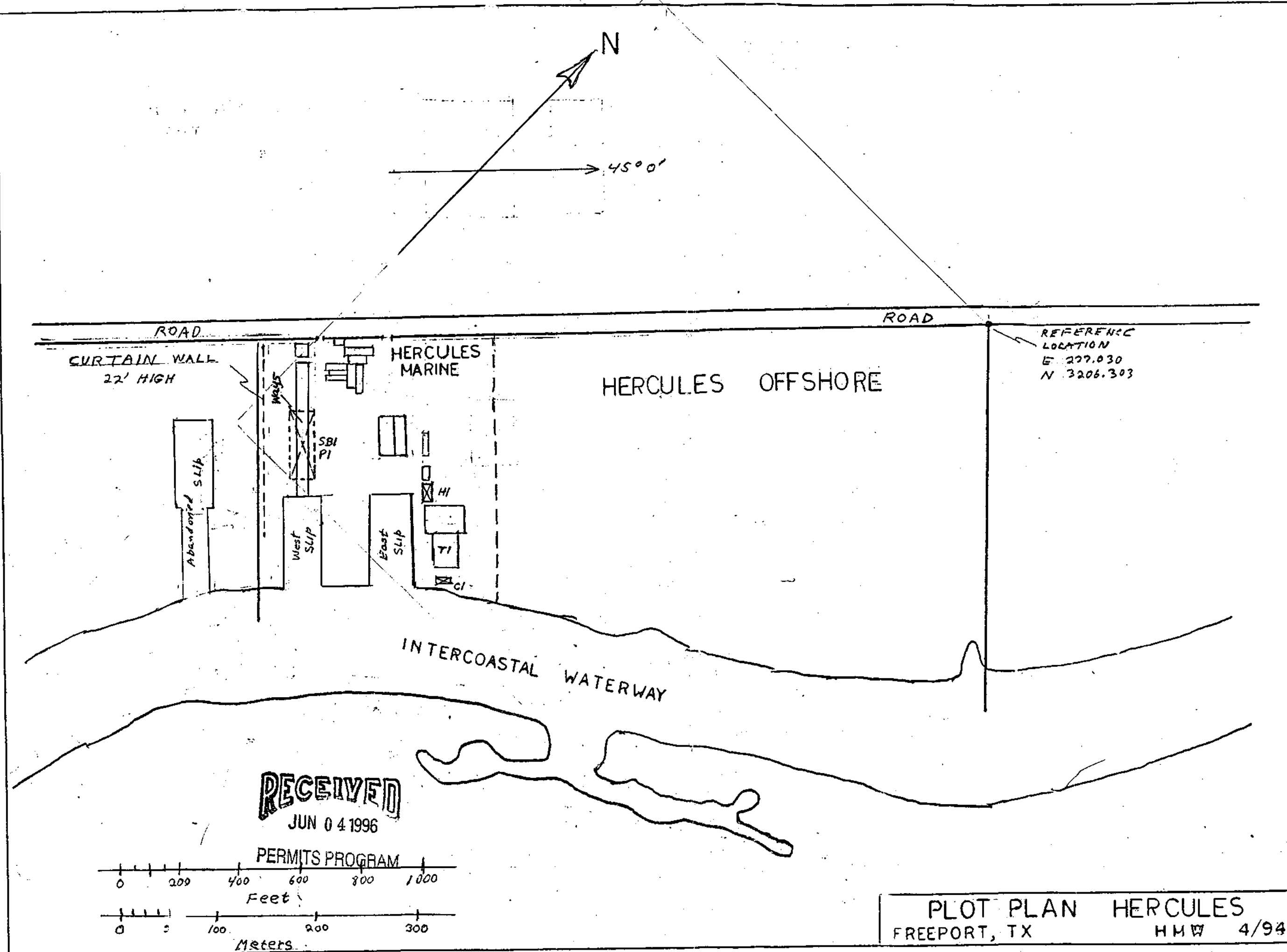
This information constitutes the compliance history of Hercules as the undersigned has been able to elucidate it. It is a small organization with little or no technical abilities and whose top

management has changed repeatedly due to sale of the business, etc. Its cadre of 10 current people at the site seem quite competent and in fact at one time won an award from Dow as being its most effective sub-contractor.

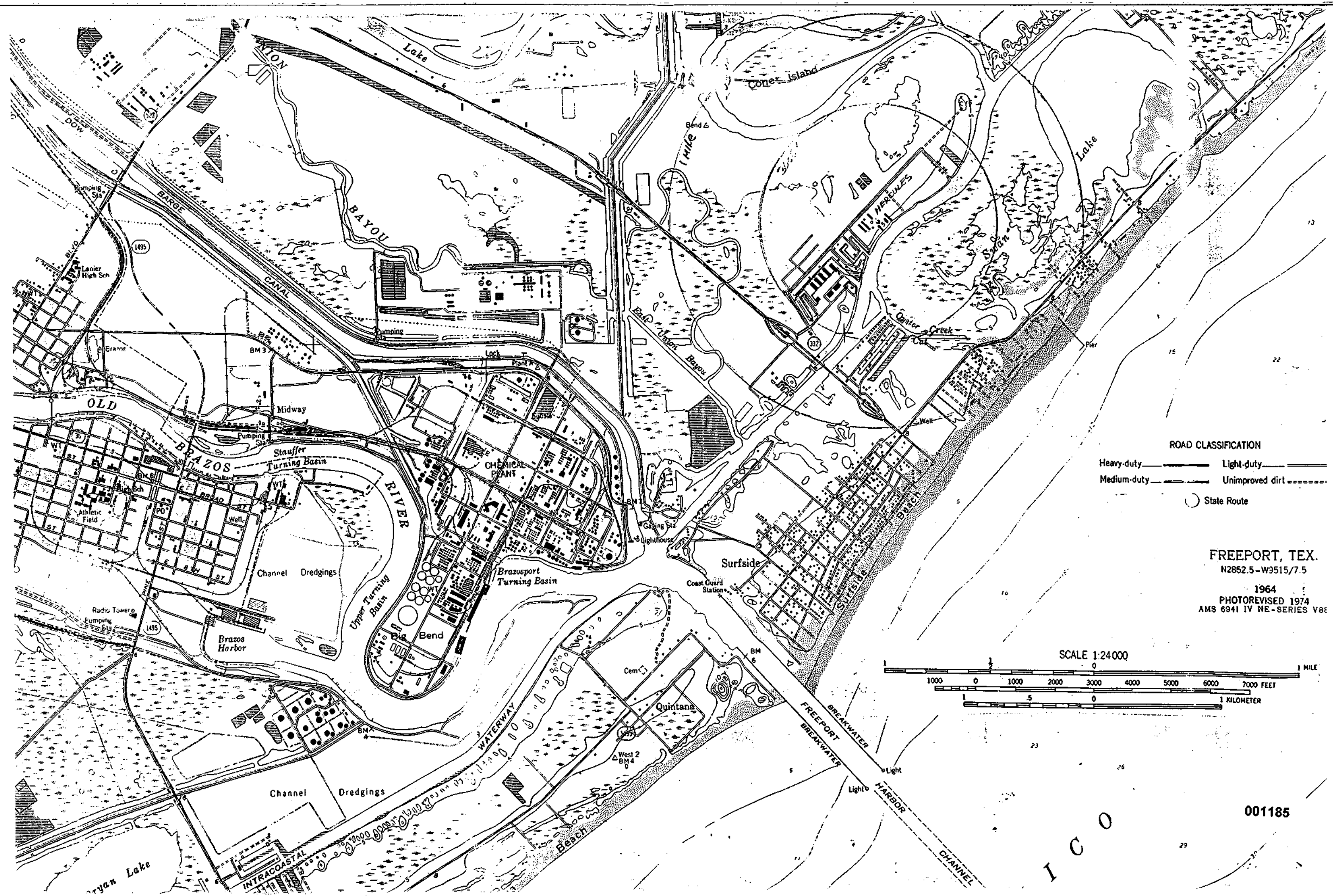
It is very unfortunate that Hercules must now be the pioneer in installing sophisticated vapor controls more than 2 years ahead of all of its competitors. Only when all competitors are using the same costly abatement procedures will Hercules be able to get adequately paid for the new costs involved. Hercules needs flexibility in its permit to bridge over the next two years while it pioneers a dangerous new technology. It is my opinion that this can be arranged in the permit without compromising any TNRCC standards along the way.

Harry M. Walker

Harry M. Walker, Ph.D.



001184



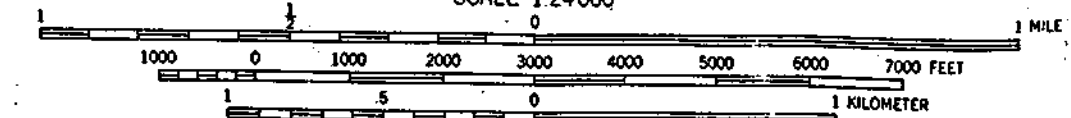
ROAD CLASSIFICATION

Heavy-duty ——— Light-duty ———
Medium-duty - - - - - Unimproved dirt - - - - -
○ State Route

FREEPORT, TEX.
N2852.5-W9515/7.5

1964
PHOTOREVISED 1974
AMS 6941 IV NE-SERIES V8E

SCALE 1:24,000



001185

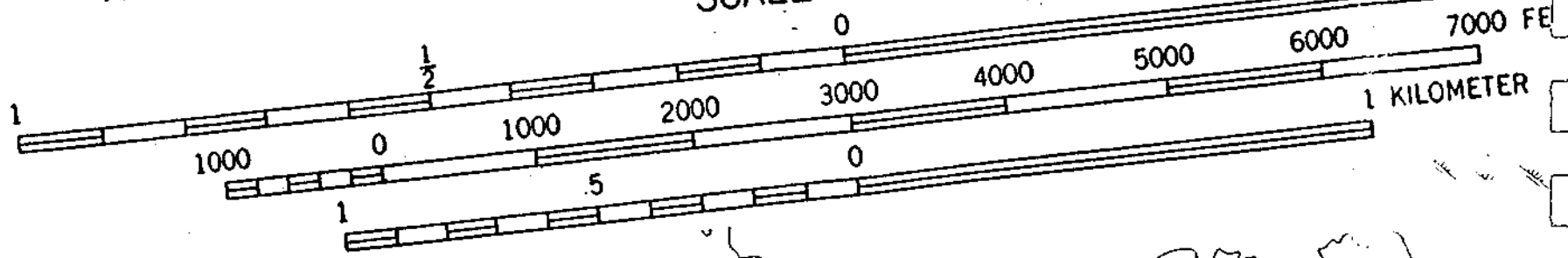
Bend

273

274

275

SCALE 1:24 000



Union

Bayou

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001186

332

HERCULES

Oyster Creek

Swan

TABLE 1(a)
EMISSION SOURCES

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

| AIR CONTAMINANT DATA | | | | | | EMISSION POINT DISCHARGE PARAMETERS | | | | | | | | | |
|----------------------|-----------------|---------------------------------------|----------------|-------------------------------|-------------|-------------------------------------|---------------|----------------|----------------------------------|-----------------------------------|-------------------|-----|------|----------------------|-------------|
| EMISSION POINT (1) | | CHEMICAL COMPOSITION OF TOTAL STREAM | | AIR CONTAMINANT EMISSION RATE | | UTM COORDINATES OF EMISSION PT. (6) | | | SOURCE HEIGHT ABOVE GROUND (ft.) | SOURCE HEIGHT ABOVE STRUCT. (ft.) | STACK SOURCES (7) | | | FUGITIVE SOURCES (8) | |
| NUMBER | NAME | COMPONENT OR AIR CONTAMINANT NAME (2) | CONC. (%v) (3) | #/HR (4) | TONS/YR (5) | ZONE | EAST (meters) | NORTH (meters) | | | EXIT DATA | | | LENGTH (ft.) | WIDTH (ft.) |
| H-1 | Steam Boiler | CO | | 0.06 | 0.02 | 15 | 276.745 | 3205.778 | 20 | — | 1 | 10 | 500 | | |
| H-1 | " | NO _x | | 0.35 | 0.114 | 15 | " | " | 20 | -- | " | " | " | | |
| H-1 | " | SO ₂ | | <.001 | <.0001 | 15 | " | " | 20 | — | " | " | " | | |
| H-1 | " | VOC | | .003 | .003 | 15 | " | " | 20 | — | " | " | " | | |
| SB-1 | Sandblasting | PM ₁₀ | | 2.1 | 2.1 | 15 | 276.630 | 3205.733 | 6 | -- | | | | 100 | 54 |
| C-1 | Combuster Stack | VOC | | 14.7 | 4.04 | 15 | 276.840 | 3205.735 | 20 | — | 70"x58" | 508 | 1400 | | |
| C-1 | " | SO ₂ | | <.01 | <.005 | 15 | " | " | 20 | — | " | " | " | | |
| C-1 | " | NO _x | | .339 | .093 | 15 | " | " | 20 | -- | " | " | " | | |
| P-1 | Surface Coating | VOC | | 18. | 1.54 | 15 | 276.630 | 3205.733 | 6 | -- | | | | 100 | 54 |

001187

 GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL 5 feet.
 TACB STANDARD CONDITIONS ARE 68°F AND 14.7 PSIA [RULE 131.01.00.001(55)]

DISCUSSION OF BACT
DISCUSSION OF HERCULES SYSTEM

BARGE DEGASSING:

Today, BACT for the degassing of barges containing explosive mixtures of flammable vapors is to use air or steam driven eductors inserted into barge compartment hatches and blow the contents to the atmosphere. This is so because the hazards of causing an explosion are so great that no really safe technique today exists to convey the vapors to a flare, combustor or scrubber as an air pollution abatement device. This is undoubtedly why the application date for the abatement of vapors in such operations has been deferred to November 15, 1996. The industry is feverishly searching for an answer before the due date.

While some safe systems are in operation for abating the vapors displaced during barge loading operations they involve inerting with nitrogen, conveying an unexplosive mixture hundreds of feet to a combustor where a large quantity of fuel gas and fresh air must be admixed before combustion can occur. They are extremely expensive systems to operate yet, unlike the more general problem faced by Hercules, they usually only operate on one specific material and require only one turnover of barge vapors per loading.

Degassing empty but fume-filled barges is a very different matter. Here most operators are thinking in terms of 2 or 3 turnovers. One TNRCC document even suggests that 4 turnovers should be used. All those concerned are attempting furiously to somehow reduce the number of turnovers needed to reach a regulatory compliant condition because of the extreme fuel cost for burning air in a combustor. However such considerations are almost beside the point. Safety considerations outweigh all other issues.

There is no consensus on conveying explosive mixtures. Many contend that they must be diluted to well below the LEL immediately (the Coast Guard says 30% of the LEL). Others point out that enriching with natural gas to well above the LEL (the Coast Guard says 170%) is a better way to go at least for very rich vapors. Either way a non-explosive mixture is transported, passed through blowers, flame arresters, detonation arresters and finally admixed with fuel (and maybe air) and in some manner and burned. In any case if an inert (as air) are added it enlarges all of the equipment and increases the fuel cost practically in proportion to its volume. (For example: To inert air saturated with benzene vapors at 90 ° F to 50% of the LEL with air requires 7 volumes of

fresh air per volume of saturated vapor.)

Enriching is little better, in that case so much new fuel is added, that the hourly quantity of the enriched mixture which can be fed to a given burner is greatly reduced prolonging the degassing period prohibitively.

There is another group of safety experts which feels that explosive mixtures can be conveyed safely and safety can be assured by using flame arresters and detonation arresters. However many contend that this is insufficient and hazardous. Whether an explosive mixture can be passed through a blower safely is an uncertainty. What happens if the blower bearings fail and the rotor drags on the case? Should the blower be made only of a non-sparking metal like copper?

HERCULES PROPOSED SYSTEM:

Hercules, recognizing the uncertainties and the considerable danger has no immediate plans to handle barges containing explosive mixtures. Instead it will initially confine its activities to barges containing only materials of lower vapor pressure while developing its operating know-how and its techniques. Thus the information developed in Table II ranges only up to 0.6 psia vapor pressure. It is not the intention of Hercules to have the TNRCC so limit the range of degassing activities permitted under the permit. When Hercules becomes satisfied that it has a safe system it wants to be free to do preliminary full-scale degassing in the higher vapor pressure ranges. The issue is not cost, it is not emissions, it's safety.

With some analyses suggesting prohibitive fuel cost of \$1000 or more for degassing a single 30000 bbl barge, great efforts are being made to reduce the number of turnovers required to achieve effective degassing. Hercules knows that vapors in barges are heavily stratified with the most concentrated vapors being at the bottom and much more dilute mixtures being found at the top. It will therefore arrange its connections to the barges so as not to disturb this favorable situation. First, the 16" vapor suction line will, using flexible vapor hose, be extended to within 2' of the bottom of each barge compartment just above the sump. This will allow the most concentrated vapors to be removed first. Second, by means of a simple diffuser inserted into the air input hatch Hercules will cause the air being admitted to flow in horizontally in a manner which will cause minimum turbulence and mixing of air into the vapors already in the barge. Ideally this could reduce the processing need to close to one turnover to reach the regulatory requirement. Precedence for this is found in the EPA's AP42 fixed roof tank calculation program, where such tanks when turned over rapidly begin to approach the behavior of internal floating roof tanks.

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USE OF AN IN-LINE CHILLER:

Hercules has made calculations concerning the possible use of an in-line vapor chiller situated close of the barge. A high VOC vapor pressure in a barge becomes prohibitively costly to degas because it limits the rate that vapors can be fed to a fixed-capacity combustor. In the case of benzene at 90 degrees the volume to be burned might be increased 3-fold with a nearly proportional decrease in degassing time. (The idea that rich mixtures are cheaper to combust is fiction. Capacity/time considerations completely override the greater number of BTUs from the vapors.) Hercules therefore may investigate the use of an in-line vapor chiller and wants no restrictions placed in its permit which would preclude this experimental program.

BACT -SANDBLASTING/PAINTING:

Hercules' proposals concerning sandblasting are 100% in accord with recommendations made by the TNRCC staff in several discussions. They therefore represent BACT for its class of facility.

Marine vessel surface coating has been exempted by the TNRCC from the provisions of section 115.421 (9). Therefore restrictions on the VOC content of the surface coatings do not apply to paints used by Hercules. Due to the corrosive conditions in the seawater environment the surface coatings used on barges must be of absolutely the highest quality/most durable available. Hercules used largely 2-component epoxies in its surface coating activities. Fortunately these materials are among the group having rather low VOC contents.

BACT -RECOVERED MATERIALS STORAGE:

Hercules has 10 small tanks (average volume 5000 gal) where it stores liquids recovered from the barges. These are segregated by material and type. All tanks are connected to a common vent header system which terminates in two carbon absorption vessels which removes VOCs before they can vent to the atmosphere. Exit vapors from the carbon canister system are checked monthly for possible breakthrough and the cannister replaced when needed. The estimated input of liquid to this system is 200 gallons/barge or 8000 gallons per month.

Shipments are made from tanks frequently and they seldom become full. Shipment is normally by commercial vacuum trucks or tank trucks. Tank covers are well-gasketed and are kept bolted shut except when access to the tank is needed. It is not necessary to open them to pump out the contained liquids. The tanks are used completely interchangeably.

Emissions from the system due to filling and breathing were calculated using AP42-4B on the basis of a common 51000 gallon system.

The annual turnover rate uses was 1.75. The carbon canister at the end of the system was assumed to have a 99% efficiency so the total emissions from these tanks is trivial.



TEXAS COMPTROLLER OF PUBLIC ACCOUNTS

JOHN SHARP • COMPTROLLER • AUSTIN, TEXAS 78774

CERTIFICATION OF ACCOUNT STATUS

THE STATE OF TEXAS

COUNTY OF TRAVIS

I, John Sharp, Comptroller of Public Accounts of the State of Texas, DO
HEREBY CERTIFY that according to the records of this office

HERCULES MARINE SERVICES CORPORATION

is, as of this date, in good standing with this office having no franchise
tax reports or payments due at this time.

This certificate is valid through the date that the next franchise tax report
will be due, MAY 15, 1997.

This certificate is not valid for the purpose of dissolution, merger or
withdrawal.

GIVEN UNDER MY HAND AND
SEAL OF OFFICE in the City of
Austin, this 15TH day of
MAY, 1996 A.D.

JOHN SHARP
Comptroller of Public Accounts

Charter/C.O.A. number: 012824199-0

001192

SHOP

QUONSET

HERCULES OPERATING AREA DETAILS HMW 4/94

N

Fresh
WaterLunch
RoomBoiler H1
UTM E 276.745 N 3205.778

CONCRETE

Trap
TankDIKE
18"

Diesel oil

wash water
tanks

2000

VAL
PUMP

CONCRETE

73500

28000

73500

Vacuum
stripping
TanksFlexible
Hose
14"Diffuser
in
Hatch

30000 BBL BARGE

Air T

Carbon
Traps

500

Vent T-1

Trap
Tank

100

500

6000

300

350

4500

6000

4000

30000

3400

Recovered
Product
TanksPVC LINE
14"

Blower

C-1

CONCRETE
DIKE 18"

Air T

COMBUSTOR

INTERCOASTAL WATERWAY

001193

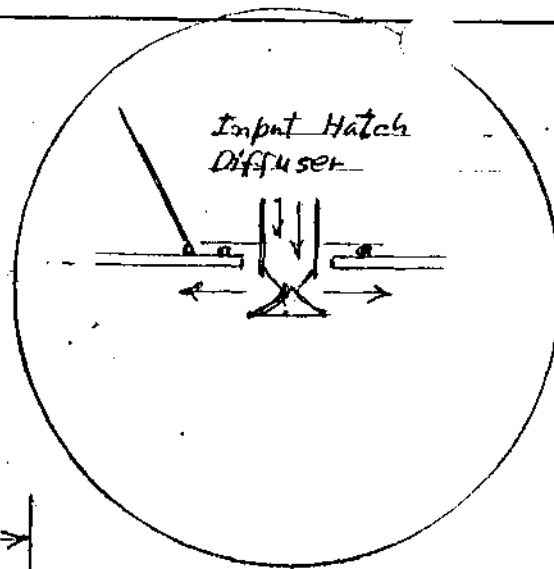
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50

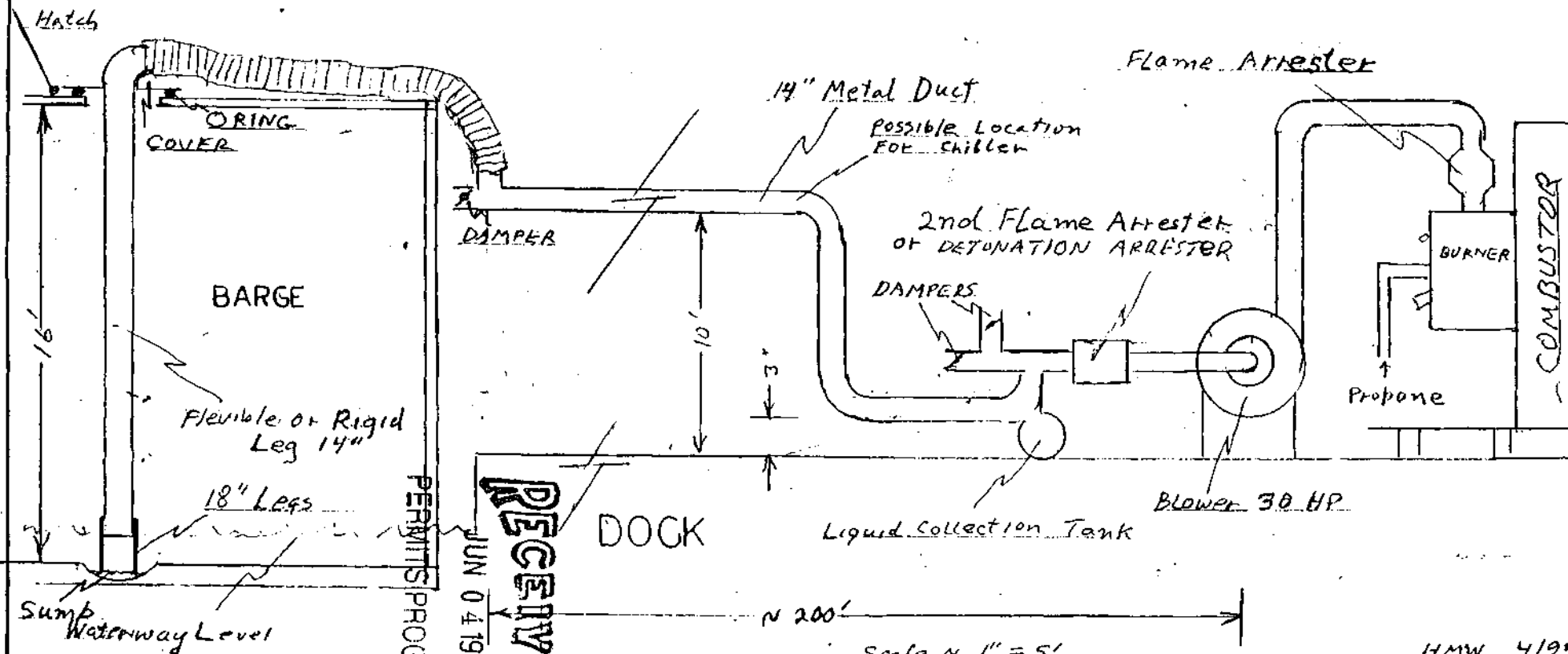
Feet

100

150



1.6" Vapor Hose
N 125'

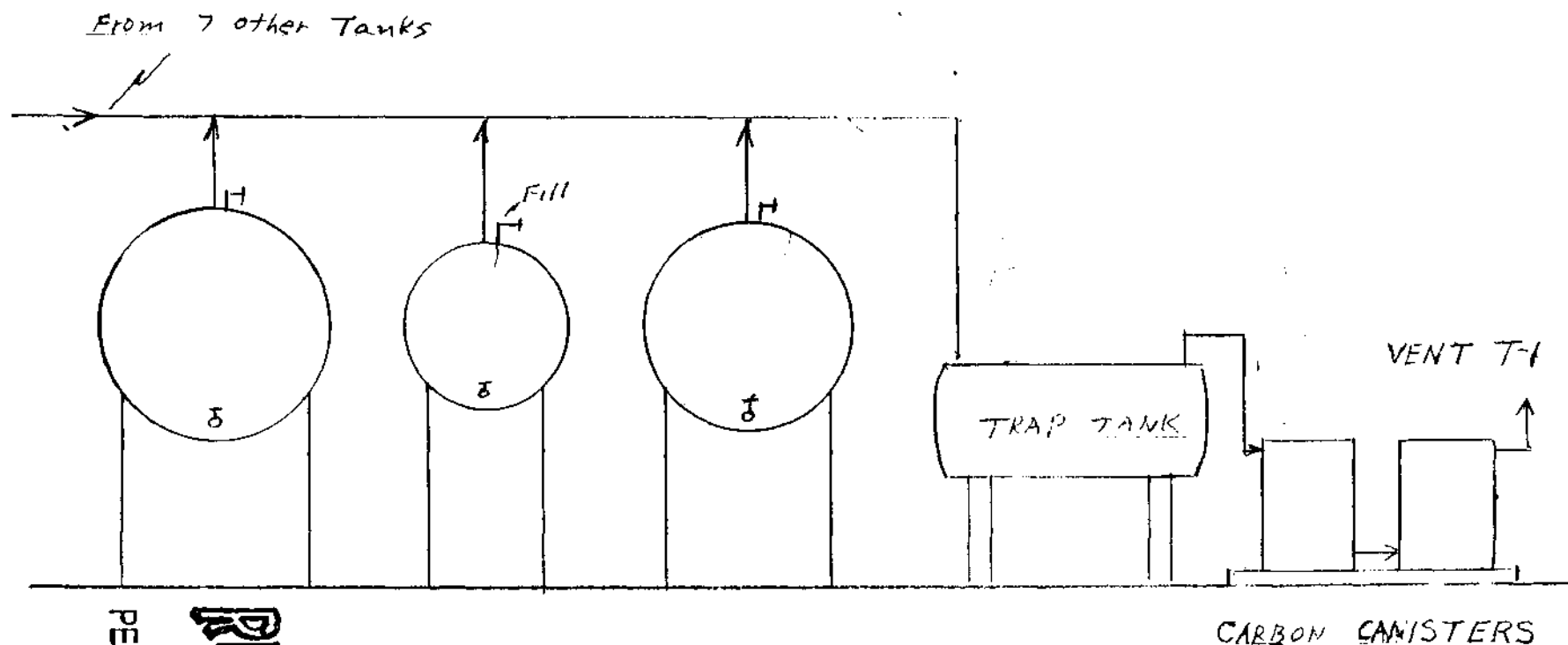


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JUN 04 1996

HERCULES
VAPOR COLLECTION SYSTEM



PERMITS PROGRAM

JUN 04 1996

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HMW 9/94

HERCULES
RECOVERED PRODUCT TANKS

HERCULESE MARINE CORP
Description of Processes

INTRODUCTION:

Herculese Marine Corp provides services to the barging industry. These services are: Degassing of vessels, cleaning of vessels, and repairing of vessels. The vessels are primarily large barges used in the transportation of liquid materials by the refining and petrochemical industries. These services include the sandblasting and painting of barges as well as mechanical repair and welding. Hercules has a "ways" in conjunction with one of its barge slips which permits it to pull a barge entirely out of the water should it be necessary to do repairs on its bottom or to sandblast and repaint the entire hull.

Barge are typically of 10000 bbl, 20000 bbl or 30000 bbl capacity. They are very large units. A 30000 bbl barge will be about 300' long overall, 54' wide and 14' deep. It will draw about 10' of water when loaded. The 10000 bbl units are 35' wide but are usually 167' long and draw about 6' of water loaded.

BARGE DEGASSING:

As a service organization Hercules is called upon to service all types of non-pressure barges which could have been in almost any type of prior duty. While arriving "empty" they never-the-less typically will contain a few gallons of their prior cargo in the bottom sump and the air within their cargo holds will be heavily contaminated, possibly saturated, with vapors of the same material.

Decontaminating barges first requires removing the residual liquid with a small hand-held pipe probe extended to the sump from the deck through a hatch. An attached suction pump removes this liquid and sends it via a 2" hose to one of 10 product holding tanks. This liquid, which sometimes amounts to as much as 400 gallons, is of value and is held in the tank for later sale.

The following step, degassing, traditionally has been done with air or steam powered eductors inserted into 1 or 2 hatches per compartment. These induce a flow of vapors out of the barge through the inductors to the atmosphere. The barge atmosphere is gradually replaced with fresh air which flows into the barge

through at least one other opening in the compartment roof. Naturally, depending on the prior service of the barge, this procedure often involved the emission of considerable quantities of VOCs to the atmosphere. Since the vapor/air mixtures contained in barges are often explosive, barge decontamination is fraught with danger.

The procedure discussed has hither-to-for met with the approval of the TNRCC, EPA and other regulatory bodies because no safe as well as economical alternative system has been available. This remains true today and will still be true on November 15, 1996 when section 115.541 of Chapter 115 (known as revised regulation V) takes effect.

It is Hercules intent to immediately install a system using a propane-fired combustor to destroy degassing vapors containing large concentrations of VOCs. It is Hercules intent to use this system carefully with utmost attention to safety considerations. It is Hercules intention during the next 2 years to learn the limitations of the system and to develop procedures which will permit its routine use in compliance with the attainable provisions of section 115.542. During this learning period Hercules will fully comply with current regulations. Hercules will not attempt to burn explosive mixtures until it becomes completely familiar with the system and satisfied with the safety of the procedure.

Barge degassing is Hercules most significant air emissions source which the current program seeks to remedy. Two lesser problems being addressed are dust from sandblasting and VOC emissions from surface coating operations.

It is Hercules intent to later install a water scrubber on the stack of the combustor so that chlorinated hydrocarbon vapors can be burned. This will be handled in a separate permit amendment application.

SANDBLASTING:

While considerable standard technology exists for dealing with sandblasting dust in most typical indoor situations, treating barges as large as a football field outdoors is another matter. Fortunately in dealing with sandblasting on a large scale outdoors the TNRCC has developed guidelines which Hercules can meet. Hercules intends to conform to these guidelines fully. Hercules will therefore do the following:

- 1) Erect a fabric or plastic curtain 300' long and 22' high along the west side of its property to be used during sandblasting and painting. This is the side toward some residences more than 500' away. This curtain will significantly reduce the quantity of windborne dust which

will drift to the west and southwest even when the wind is in that direction. (The prevailing wind in the Freeport area is onshore from the south or southeast.)

It is a point of information that at one time Hercules installed such a curtain. It proved to be short-lived. It was torn to tatters by the wind in just a few months. It is Hercules intent to purchase a significantly higher quality curtain and to possibly provide a means to draw it in sections when no sandblasting is taking place in the southwest slip or on the "ways".

- 2) Convert to "black grit" sandblasting medium for all major sandblasting jobs. This material contains little or no silica and produces considerably less dust than the quartz sand conventionally used.
- 3) Limit its sandblasting to no more than three guns when the wind is toward the southwest.

SURFACE COATING OPERATIONS:

In conjunction with barge repair sandblasting and repainting are always necessary. Barges function in a marine salt-water environment and require the protection of the highest quality corrosion-resistant surface coatings. Sound surface coating practice requires that the prime coat should always be applied the same day that a surface is sandblasted ---preferably within 4 hours. Again the TNRCC has has experience with the limitations of outdoor sandblasting and has developed guidelines. It is Hercules intent to conform to these guidelines in every way possible. Hercules will therefore do the following:

- 1) Use only airless paint spray guns. These guns will be operated with minimum air pressure sufficient to secure a good break-up of the coating. This will minimize overspray.
- 2) Use primarily urethane and epoxy coatings which in general contain minimal amounts of VOC solvents.
- 3) Minimize spray painting when winds are from the northeast.

MINOR SOURCES ON PROPERTY:

Hercules has 10 small tanks on its property which are used for the temporary storage of liquids recovered from barges. In general these liquids are segregated by identity, as even small quantities are much more marketable when kept pure. Thus one tank may contain

xylene, one #2 fuel oil, one methylethylketone, one denatured ethyl alcohol, etc. Generally one tank contains only heavy hydrocarbon oils which are suitable for marketing as fuel oils. When a sufficient quantity of any one material is accumulated it is sold. This may be as little as 200 gallons. Batches of liquid organics seldom stay in a tank more than 2 weeks. The tanks are interchangeable.

The vapor vents on all 10 tanks are piped together and the common line terminates, via a small trap tank, in a 2 55-gallon carbon absorption canisters. These prevent emissions to the atmosphere from transfers into the tanks and from tank breathing. All other tank openings are kept closed at all times. The total volume of all 10 tanks is 55100 gallons. The anticipated total recovery of barge organics is 200 gal per barge, 8000 per month, 96000 gallons per year. Thus the average annual tank turnover rate is about 1.75 per year. For estimating purposes a 99% capture/abatement has been assumed for the canisters. Since these tanks share a common vapor system their emissions have been estimated using a conservative figure of 1.7 psia at 90 ° F well over the maximum anticipated single material vapor pressure of 0.65 psia at 80 ° F for the most volatile material likely to be degasses through the combustor. A rate of 1.75 tu/yr was used for the entire group and the calculation was made with AP42-4B. Periodically the carbon canister is tested for leakage of hydrocarbone. When they are detected the first canister is replaced and the 2nd canister made the first one.

Hercules has a 125 hp rated package steam boiler on its property. This is used to generate steam which, in turn, is used to heat washwater for cleaning the barges. When no cleaning is in progress the boiler will be turned off. It is fueled with propane. An estimate of its emissions (using AP42) is attached.

Table II: ENGINEERING ANALYSIS OF TYPICAL HERCULES BARGE DEGASSING OPERATIONS

04/27/94 11:11

| Barge group | Typical Prior Service | Start Temp deg F | 1 vp @ T psia | 2 Ht of Combust btu/lb | 3 MW | 4 Ht of Combust btu/aef | 5 LEL Vol % | 6 vp @ T Vol % | 7 Prelim Ht Rel 4000 cfm Mbtu/hr | 8 1st TO propene to burner cfm | 9 1st TO Adjstd Barge cfm | 10 Dilutn Air cfm | 11 1st TO Total BTU Mbtu/hr | 12 Line vp @ T Vol % | 13 Line Explosv | 14 Last TO Propene to 6.8 M cfm | 15 Last TO Adjstd Barge cfm | 16 10000 bbl 310 Time hr | 17 20000 bbl 310 Time hr | 18 30000 bbl 310 Time hr | 19 1st TO Propene Cost \$/TO | 20 Last TO Cost \$/TO | 21 Propane Cost 10k barge \$ |
|----------------|--------------------------|------------------------|---------------------|---------------------------------|---------|----------------------------------|-------------------|----------------------|----------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------|-----------------------------------------|-------------------------------|-----------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------|--------------------------------|------------------------------------------|
| Low <.1 psia | Ethylene glycol | 80 | 0.0002 | 1000 | 106 | 0.0032 | 2.00 | 0.001 | 0.00 | 44.1 | 3956 | -0 | 6.80 | 0.0012 | N | 44.1 | 3956 | 0.71 | 1.42 | 2.13 | 11.53 | 11.53 | 34.59 |
| Mid .1-.2 psia | Toluene | 80 | 0.1732 | 18250 | 92 | 50 | 1.10 | 1.178 | 12.04 | 0.0 | 2258 | 1742 | 6.80 | 0.6651 | N | 44.1 | 3956 | 0.98 | 1.95 | 2.93 | 0.00 | 11.53 | 17.29 |
| Hi .2-.6 psia | Ethyl Alcohol | 80 | 0.6000 | 13100 | 46 | 62 | 1.10 | 4.082 | 14.98 | 0.0 | 1816 | 2184 | 6.80 | 1.8533 | Y | 44.1 | 3956 | 1.13 | 2.26 | 3.38 | 0.00 | 11.53 | 17.29 |

TO = turnover

Set for 6.8 mm btu/hr

| Barge group | Start Temp deg F | Group Max VP psia | Tot Vol MW | VOC Ft3/mo | VOC Ft3/mo | Wt #/mo | Emmissions #/mo | T/yr | VOC Conc | Function | Barge size, bbl 10k | 20k | 30k | Function | Barge size, bbl 10k | 20k | 30k |
|----------------|------------------------|-------------------------|---------------|---------------|---------------|------------|--------------------|------|-------------|-----------------|------------------------|-----|------|---------------------------------------|------------------------|-----|--------------|
| Low <.1 psia | 80 | 0.1000 | 106 | 1459898 | 9931 | 2671 | 267 | 1.60 | Low | Barges/month | 16 | 2 | 2 | Barges/mo | 16 | 2 | 2 |
| Mid .1-.2 psia | 80 | 0.2000 | 92 | 729949 | 9931 | 2318 | 232 | 1.39 | Mid | Barges/month | 8 | 1 | 1 | Barges/mo | 8 | 1 | 1 |
| Hi .2-.6 psia | 80 | 0.3000 | 46 | 729949 | 14897 | 1738 | 174 | 1.04 | Hi | Barges/month | 8 | 1 | 1 | Barges/mo | 8 | 1 | 1 |
| Totals | | | | | | 6727 | 673 | 4.04 | | | | | | | | | |
| | | | | | | | | | Low | Hrs/mo degasing | 11.4 | 2.8 | 4.3 | Propane to combustor (all Low vp barg | | | |
| | | | | | | | | | Mid | Hrs/mo degasing | 7.8 | 2.0 | 2.9 | \$/month | 553 | 138 | 208 |
| | | | | | | | | | Hi | Hrs/mo degasing | 9.0 | 2.3 | 3.4 | \$/month | 138 | 35 | 52 |
| | | | | | | | | | Total: | hrs/mo | 28.2 | 7.0 | 10.6 | \$/month | 138 | 35 | 52 |
| | | | | | | | | | | | | | | Tot \$/mo | 830 | 208 | 311 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Grand total | | | 1349 \$/mo |
| | | | | | | | | | | | | | | Propane to combustor | | | 1798 Gal /mo |
| | | | | | | | | | | | | | | Sulfur content | | | --negligible |

001200

Table II (cont):

Description of calculations: By column (C numbers refer to column numbers)

- T Temperature assumed for all calculations.
 1 Input vapor pressure psia.
 2 Input heat of combustion btu/lb.
 3 Input molecular weight (average for group).
 4 Computed heat of combustion for barge contents = $C2 \cdot C3 \cdot C1 / 14.7 / C24$.
 5 Input lower explosion limit (LEL) in vol pct.
 6 Vapor pressure at temperature T (vol pct). = $C1 / 14.7 \cdot 100$.
 7 Preliminary heat release if 4000 cfm of barge vapor is burned. $CH \cdot 4000 \cdot 60 / 1000000$.
 8 If heat release is < 6.8 Mbtu/hr this col gives cfm propane to make up. (If test on C23.)
 8 Heat release in btu/ft³ from the barge vapor with propane (if needed).
 9 C23 =-, Barge educt vol for 6.8 Mbtu/hr to combustor. $C23 = 4000 - C23$.
 10 Volume of dilution air to make up 4000 cfm to combustor. $4000 - C8 - C9$.
 11 Total heat released in combustor in Mbtu/hr. $(2568 \cdot C8 + C9 \cdot C4) \cdot 60 / 1000000$.
 12 Vapor pressure in barge line with dilution air added (vol pct). $C6 \cdot C9 / (C9 + P9)$.
 13 Is C12 greater than the LEL (C5)? Yes line is explosive, No not explosive.
 14 Propane needed to give 6.8 Mbtu/hr during last TO (no btus in barge) in cfm.
 15 Barge eduction rate last TO, corrected for fuel addition. $4000 - C14$.
 16 Time in hours for 3 TOs in 10000 bbl barge. Use average educt rate of 1st & last TOs.
 $56150 / ((C9 + C15) / 2) \cdot 60 \cdot 3$. Theory says average 1st TO & 2 3rd TOs. This allows 50% more time.
 17 10000 bbl time x 2.
 18 10000 bbl time x 3.
 19 Propane cost for 1st TO. Volume $(10000 \text{ bbl}) / (C9 \cdot 60 / 1000) \cdot C27$. (C27 is cost of propane in \$/mcf)
 20 Propane cost for 3rd TO. Volume $(10000 \text{ bbl}) / (V9 \cdot 60 / 1000) \cdot C27$. (C27 is \$2\$1 = 56150 ft³.
 21 Total propane cost for a 10000 bbl barge. $(C20 + C19) \cdot 3 / 2$. \$AB\$1 = 112300 ft³.
 22 Initial calculation of propane to enrich total to 6.8 Mbtu/hr. (6800000 \$AD\$1 = 168449 ft³.
 23 GMV at temperature T.
 24 Cost of propane in \$ per gallon.
 25 Cubic ft/gallon of propane at temp T.
 26 Cost of propane in \$ per 1000 cf. $0.75 \cdot 1000 / (4.34 / 42 \cdot C28)$

Table 11 (cont-2): MISCELLANEOUS SINGLE SUBSTANCES MANY REQUIRING EXCESSIVE DEGASSING TIME

04/27/94 11:11

| | T | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|-------------------|-------|--------|---------|---------|-------|--------|----------|-----------|--------|--------|---------|---------|--------|---------|----------|---------|-------|-------|-------|---------|---------|---------|
| | Start | Ht of | Ht of | | | | Prelim | 1st TO | 1st TO | | 1st TO | | Line | | Last TO | Last TO | 10000 | 20000 | 30000 | 1st TO | Last TO | Propane |
| Miscellaneous | Temp | vp @ T | Combust | Combust | LEL | vp @ T | Ht Rel | to burner | Adjstd | Dilutn | Total | BTU | vp @ T | Line | to 6.8 M | Adjstd | bbl | bbl | bbl | Propane | Cost | Cost |
| Prior Service | deg F | psia | btu/lb | MW | Vol % | Vol % | 4000 cfm | cfm | Barge | Air | Mbtu/hr | Mbtu/hr | Vol % | Explosv | cfm | cfm | hr | hr | hr | \$/TO | \$/TO | 10k bar |
| Benzene | 80 | 1.9817 | 17986 | 78 | 480 | 1.41 | 13.481 | 115.15 | 0.0 | 236 | 3764 | 6.80 | 0.7960 | N | 44.1 | 3956 | 6.30 | 12.60 | 18.89 | 0.00 | 11.53 | 17.29 |
| Cyclohexane | 90 | 2.6095 | 20350 | 84 | 756 | 1.40 | 17.752 | 181.39 | 0.0 | 150 | 3850 | 6.80 | 0.6654 | N | 44.1 | 3956 | 9.72 | 19.43 | 29.15 | 0.00 | 11.32 | 16.97 |
| Ethyl Alcohol | 90 | 1.7181 | 13100 | 46 | 175 | 3.28 | 11.688 | 42.10 | 0.0 | 646 | 3354 | 6.80 | 1.8877 | N | 44.1 | 3956 | 2.53 | 5.06 | 7.58 | 0.00 | 11.32 | 16.97 |
| Ethyl Alcohol | 70 | 0.9128 | 13100 | 46 | 97 | 3.28 | 6.210 | 23.21 | 0.0 | 1172 | 2828 | 6.80 | 1.8191 | N | 44.1 | 3956 | 1.55 | 3.11 | 4.66 | 0.00 | 11.74 | 17.61 |
| Cyclohexane | 70 | 1.5945 | 20350 | 84 | 479 | 1.40 | 10.847 | 115.02 | 0.0 | 236 | 3764 | 6.80 | 0.6412 | N | 44.1 | 3956 | 6.29 | 12.58 | 18.87 | 0.00 | 11.74 | 17.61 |
| Styrene | 70 | 0.0931 | 18324 | 104 | 31 | 1.10 | 0.633 | 7.49 | 0.0 | 3633 | 367 | 6.80 | 0.5752 | N | 44.1 | 3956 | 0.74 | 1.48 | 2.22 | 0.00 | 11.74 | 17.61 |
| Toluene | 80 | 0.1732 | 18250 | 92 | 51 | 1.10 | 1.178 | 12.27 | 0.0 | 2217 | 1783 | 6.80 | 0.6528 | N | 44.1 | 3956 | 0.99 | 1.98 | 2.96 | 0.00 | 11.74 | 17.61 |
| Gasoline | 80 | 5.9000 | 19500 | 100 | 1985 | 1.00 | 40.136 | 476.50 | 0.0 | 57 | 3943 | 6.80 | 0.5727 | N | 44.1 | 3956 | 24.95 | 49.89 | 74.84 | 0.00 | 11.53 | 17.29 |
| Benzene --chiller | 40 | 0.6560 | 17986 | 78 | 172 | 1.41 | 4.463 | 41.17 | 0.0 | 661 | 3339 | 6.80 | 0.7371 | N | 44.1 | 3956 | 2.48 | 4.96 | 7.44 | 0.00 | 12.45 | 18.67 |

001202

Table III: BARGES LIKELY TO BE DECONTAMINATED BY HERCULES MAY CONTAIN THE FOLLOWING MATERIALS IN THE FUTURE

Lowest volatility (0 - 0.1 psia)---

| Material | Vapor Pr 80 F | Material | Vapor Pr 80 F |
|-------------------|------------------|--------------------|------------------|
| Ethylene glycol | 0.002 | 2-Ethylhexanol | 0.003 |
| Propylene glycol | 0.003 | Adiponitrile | 0.00002 |
| Diethylene glycol | 0.0002 | Dicyclopentadiene | 0.061 |
| Monoethanol amine | 0.008 | Xylenes | 0.045 |
| Diethanol amine | 0.00001 | Ethylbenzene | 0.045 |
| Kerosene | 0.030 | Cumene | 0.021 |
| No.2 Fuel Oil | 0.002 | Propylene tetramer | 0.050 |
| No.4 Fuel Oil | < .002 | Mineral spirits | 0.084 |
| No.6 Fuel Oil | < .002 | 2-Butoxyethanol | 0.019 |

Mid volatility (0.1 - 0.2 psia)---

| | | | |
|-----------|-------|----------------|--------|
| Styrene | 0.104 | Jet-A | 0.0172 |
| Toluene | 0.173 | Methyl styrene | 0.0565 |
| n-Butanol | 0.153 | Resin Oil | < 0.21 |

Higher volatility (0.2 - 0.65 psia)---

| | | | |
|-------------------|-------|-------------|-------|
| Naphtha (heavy) | 0.200 | Acetic acid | 0.334 |
| Ethanol | 0.600 | Nonene | 0.21 |
| Methylethylketone | 0.653 | | |

Extreme volatility >0.65 psia---

| | | | |
|--------------------|---------|---------------|-------|
| VM&P Naphtha | 0.900 | Cyclohexane | 2.051 |
| BTX | 1.000 | Acrylonitrile | 2.259 |
| Benzene | 1.982 | Vinyl acetate | 2.392 |
| Dripolene | 1.0-2.5 | Raffinate | 3.600 |
| Pyrolysis gasoline | 1.0-2.5 | Acetone | 4.770 |
| Crude oil | 1.0-5.0 | MTBE | 5.160 |
| JP-4 | 2.000 | Gasoline | 5.900 |

Halogenated products

| | | | |
|-----------------------|-------|-------------------------|-------|
| Chlorobenzene | 0.253 | 1,1,2-Trichloroethylene | 1.540 |
| Perchloroethylene | 0.392 | Ethylene dichloride | 1.655 |
| 1,1,2-Trichloroethane | 0.490 | Carbon tetrachloride | 2.374 |
| 1,2-Dichloropropane | 1.089 | Chloroform | 4.100 |
| 1,1,1-Trichloroethane | 1.186 | Methylene chloride | 9.690 |

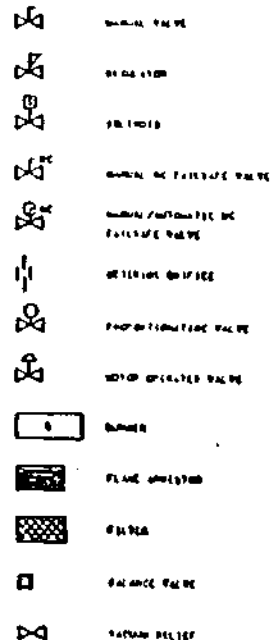
Miscellaneous Products

Materials falling into the above groups which are similar chemically, toxicologically or in odor properties to those permitted above.

Hercules will not attempt to handle barges in the Extreme volatility group until the safety technology is improved for such systems and that safe operations have been demonstrated. No chlorinated materials will be processed through the combustor until a complete permitted scrubber/neutralizer system is installed. The explosion risk of handling chlorinated materials is much less than the materials in the 3rd group. However due to the extremely low rate of processing of the highest volatility materials and the consequent high propane cost it is unlikely that Hercules will choose to process perhaps any materials with vapor pressures >1.0 psia.

001203

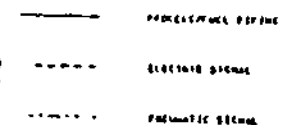
VALVE AND PIPING SYMBOLS



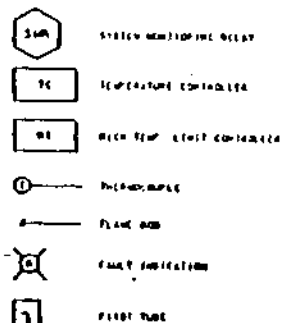
EQUIPMENT SYMBOLS



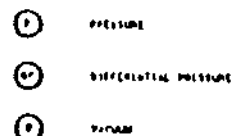
LINE SYMBOLS



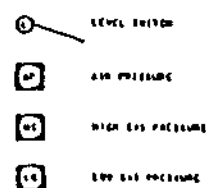
INSTRUMENT SYMBOLS



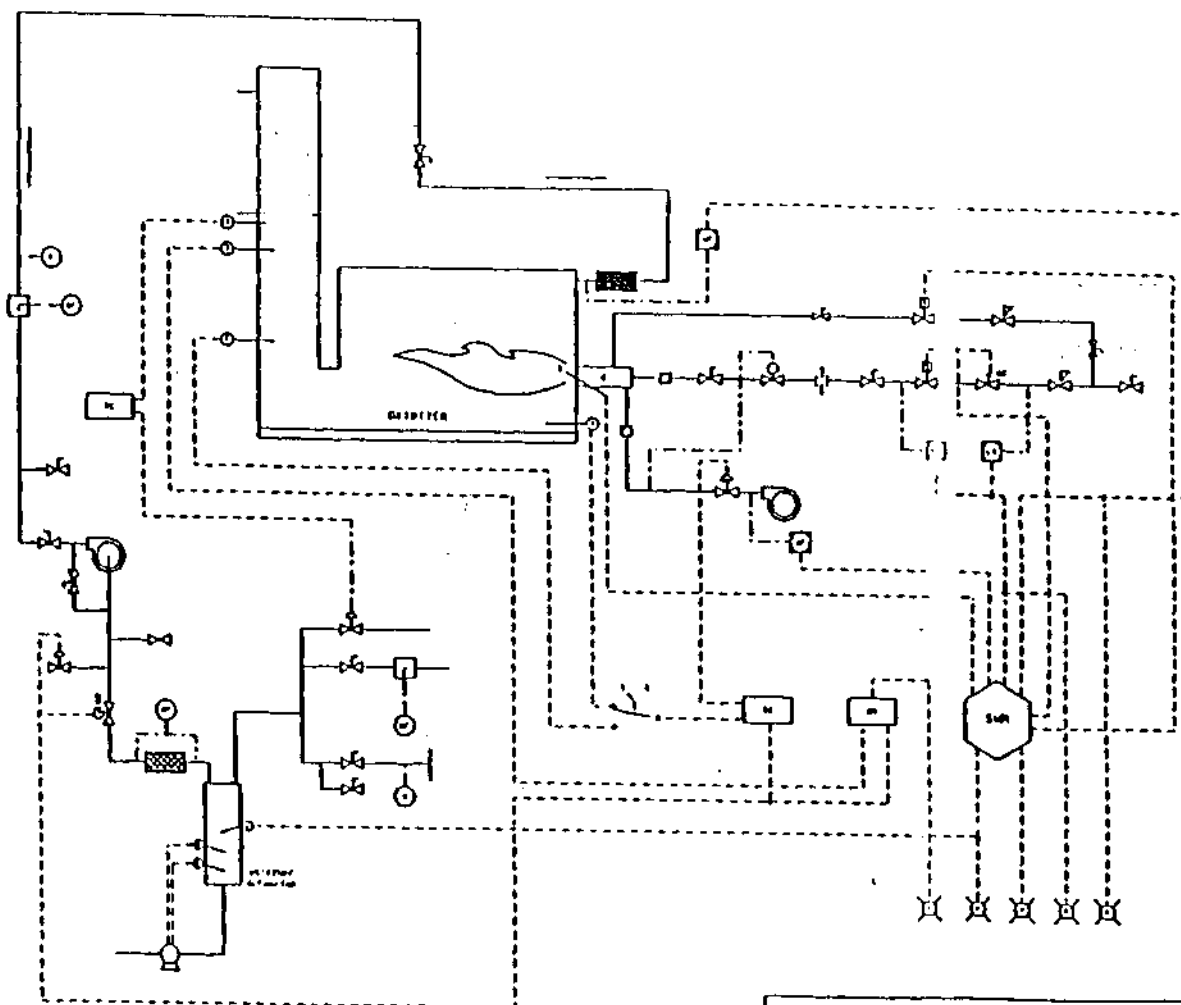
GAGE SYMBOLS



SWITCH SYMBOLS



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JUN 04 1996
PERMITS PROGRAM



NOTE: V.E.S., HEAT EXCHANGER, CATALYTIC, AND AUTO DILUTION OPTIONS ARE SHOWN

| | | | |
|------------------------------------------------------------------------------------------|----------|--------|--|
| THERMTECH, INC. THERMAL/CATALYTIC OXIDIZERS KENNEWICK, TEXAS 1-800-659-8270 | | | |
| P&ID THERMAL/CATALYTIC OPERATION | | | |
| DATE: 6/20/91 BY: [Signature] CHECKED: [Signature] | N. T. S. | 1 OF 1 | |

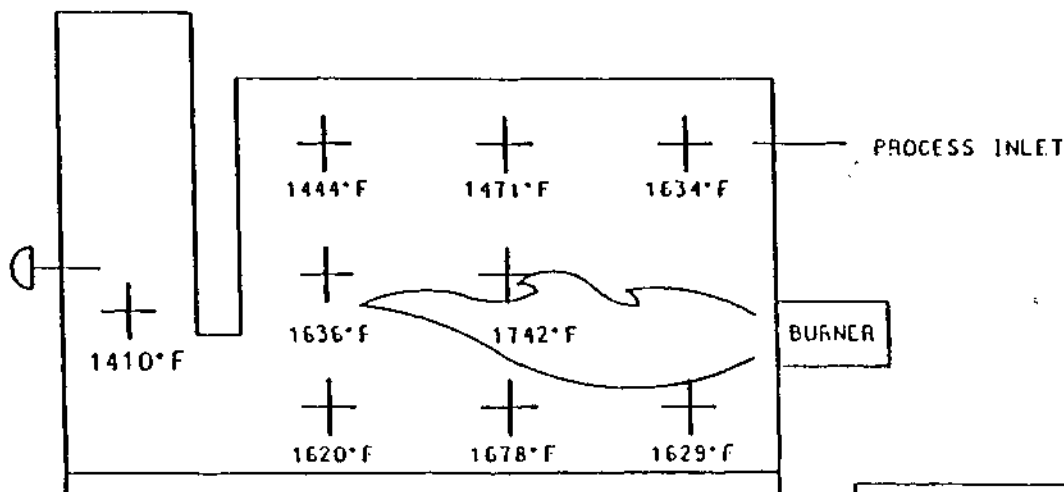
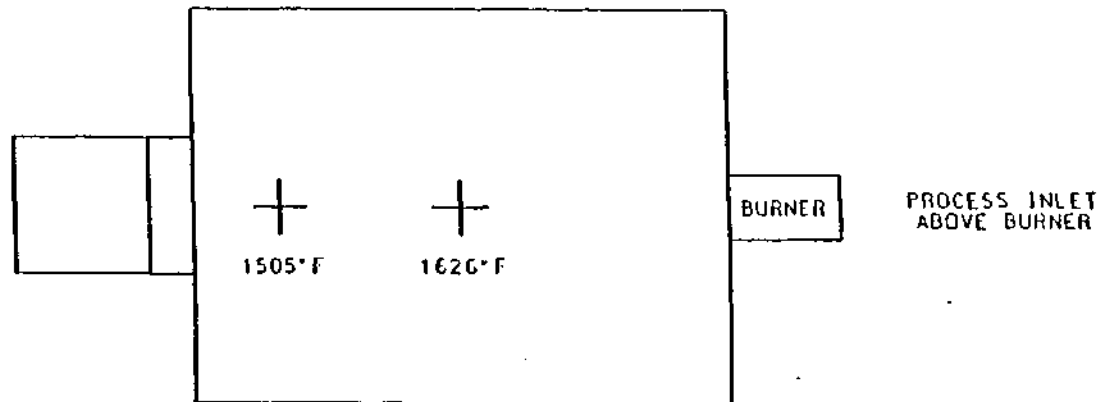
001204


PERMITS PROGRAM

JUN 04 1996

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THERMOCOUPLE



| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  THERMTECH, INC. THERMAL/CATALYTIC OXIDIZERS KINCWOOD, TEXAS 1-800-659-8271 | |
| TEMPERATURE PROFILE | |
| DATE: _____ TIME: _____ BY: _____ | N.T.S. 1 OF 1 |

FOR PURPOSE OF THIS TEMPERATURE PROFILE THE PROCESS INLET CONTAINED NO VOC'S.

001205

March 1, 1994

VAPOR CHECK

MODEL: VAC 400

GENERAL DATA

| | |
|--------------------------------------------------------|---------------------------------------------------|
| * SCFM rating | 4000 SCFM (113.3 m ³ /min) |
| * burners maximum output capability | 6.8 mmBTU/Hr |
| * burner turndown ratio | 20 to 1 |
| * combustion chamber I D | 72" x 72" x 120" (182.9cm x 182.9cm x 304.8cm) |
| * stack I D | 70" x 58" (177.8cm x 147.3cm) |
| * skid size | 85" x 259" (215.9cm x 657.9cm) |
| * velocity through 8" process inlet | |
| @ 2000 SCFM (56.6 m ³ /min) process stream | 5731 ft/sec (1747 m/sec) |
| @ 4000 SCFM (113.3 m ³ /min) process stream | 11461 ft/sec (3493 m/sec) |

THERMAL DATA

| | |
|----------------------------------------------------------------------------------|---------------------------------------------|
| * total ACFM @ 1400°F (760°C) | 14000 ACFM (396.5 m ³ /min) |
| * burner chamber volume required for 0.5 seconds retention time @ 1400°F (760°C) | 116.7 ft ³ (3.3 m ³) |
| * burner chamber volume required for 1.0 seconds retention time @ 1500°F (815°C) | 233.3 ft ³ (6.6 m ³) |
| * stack velocity | |
| @ 2000 SCFM (56.6 m ³ /min) process stream | 4.14 ft/sec (1.26 m/sec) |
| @ 4000 SCFM (113.3 m ³ /min) process stream | 8.28 ft/sec (2.52 m/sec) |
| * estimated weight | 11,000 lbs (4989 Kg) |

* The above data is intended to be used as general, guide line type information. For specific application proposal, please contact Thermtech, Inc..

CALCULATION OF VOC EMISSIONS FROM COMBUSTOR STACK

The combustor will operate at a minimum of 1450° F with a 1-second residence time. This combination should yield a VOC destruction efficiency of > 95%. However for the overall capture/destroy cycle a conservative 90% efficiency will be assumed.

Since the entire suction line from the barge interior to the combustor blower will be under a small negative pressure losses to the atmosphere during degassing will be negligible.

From Table II the estimated total VOC emissions from the stack will be 4.04 tons/yr. With the 40 barges/month basis it is estimated that 42.8 hours of degassing and combustor operation will be required per month. Thus the emission rate to use for this source is:

$$4.04 \times 2000 / (45.8 \times 12) = 14.7 \text{ lbs/hr or:}$$

$$14.7 \times 453.6 / 3600 = 1.8522 \text{ grams per second.}$$

The stack volume will always be 4000 scfm or 14328 cfm at temperature. The stack temperature will be about 1400° F and the stack velocity will be about 508 fps (155 m/s).

$$\frac{\text{tons}}{\text{yr}} \times \frac{16}{\text{ton}} \quad \frac{\text{yr}}{12 \text{ months}} \quad \frac{48 \text{ months}}{\text{hrs}}$$

CALCULATION OF COMBUSTOR NOX EMISSIONS

Therm-Tech literature on testing of their combustors shows the highest NOx level as 10.34 ppm in the stack. The operating level was 1410 °F. For the purposes of estimation 12 ppm will be used.

At 4000 cfm with zero fuel value from the barge educt vapors 389 cfm of propane will have been included to give fuel sufficient to reach the proper combustion temperature. Burning propane yields 9 volumes of flue gas for each 8 volumes of propane. So:

Scf
(1/8 mole)

$$389 \times 9/8 = 438 \text{ cfm or:}$$

$$\text{an expansion of } 438 - 389 = 49 \text{ cfm.}$$

Plus volume from the barge = $49 + 4000 = 4049$ cfm (adjusted to 80 °F) total stack gas volume.

At 12 ppm the NOx emission is:

$$\frac{4049}{1000000} \times 12 \times 60 \times 24 = 2.9 \text{ ft}^3/\text{hr of NOx, or:}$$

$$2.9 / 394 \times 46 = .3386 \text{ lbs/hr (as NO}_2\text{)}$$

At 45.8 hrs/mo of operation:

$$.3386 \times 45.8 \times 12 = 186.1 \text{ lbs/yr} = 0.093 \text{ tons/yr.}$$

CALCULATION OF COMBUSTOR NOX EMISSIONS

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$$\text{an expansion of } 438 - 389 = 49 \text{ cfm.}$$

Plus volume from the barge = $49 + 4000 = 4049$ cfm (adjusted to 80 °F) total stack gas volume.

At 12 ppm the NOx emission is:

$$4049 \times 12/1000000 \times 60 = 2.9 \text{ ft}^3/\text{hr of NOx, or:}$$

$$2.9 / 394 \times 46 = .3386 \text{ lbs/hr (as NO}_2\text{)}$$

At 116.5 hrs/mo of operation:

$$.3386 \times 116.5 \times 12 = 473.4 \text{ lbs/yr} = 0.237 \text{ tons/yr.}$$

ABRASIVE BLAST CLEANING

08/93

001210

CALCULATION OF SANDBLASTING EMISSIONS

Basis: In its peak year of 1992 Hercules used 5000 tons of standard blasting sand. The proposed work load in this permit is one third less than 1992. Therefore the basis of this calculation will begin with 3350 tons/yr. Calculations follow:

New basis 3350 tons/yr of Black Beauty sand.

This is conservative because the reference suggests that a smaller quantity of Black Beauty will replace a larger quantity of standard sand. However no attempt will be made to take advantage of this potential gain.

Per the information accompanying the Thompson reference the emissions of PM10 will only be:

Fraction airborne from Black Beauty---

$$146/5931 \times (1-.905) = .00234$$

So: Quantity airborne from Hercules activities using 100% Black Beauty sand---

$$3350 \times .00234 = 7.84 \text{ tons/year. } \textit{fm}$$

The size distribution of this fraction will be approximately:

| | | % |
|---------|-----------|-------|
| < 30 mu | 3.3 units | 34.7 |
| < 20 mu | 1.9 units | 20.0 |
| < 15 mu | 1.8 units | 18.9 |
| < 10 mu | 2.5 units | 26.3 |
| ----- | | ----- |
| | 9.5 | 99.9 |

Thus the PM10 fraction of this airborne dust will be 26.3% and the quantity of PM10 emitted will be:

$$7.84 \times .263 = 2.1 \text{ tons/year. } \textit{fm}$$

It is estimated that actual sandblasting will occur for about 40 hours/week or 2000 hours/year. This is:

$$2.1 \times 2000 / 2000 = 2.1 \text{ lbs/hr or:}$$

$$2.1 \times 453.6 / 3600 = 0.265 \text{ grams/second.}$$

These figures will be used for modeling purposes.

CALCULATION OF PAINT USAGE BY HERCULES

Basis: 40 Barges handled per month

2 30000 bbl, 2 20000 bbl, 36 10000 bbl

Only 6 per month require any painting

Of this: - one per quarter is totally repainted,
remainder only small spot jobs

Full painting 30000 - 150 gal paint & primer

20000 - 100 gal paint & primer

10000 - 75 gal paint & primer

Average big job is 100 gallons

Small repairs average 5 gal paint & primer

Consumptn: Big jobs = 4 x 100 = 400 gal

Small jobs = 68 x 5 = 340 gal

Annual total = 740 gal

Assume 2/3 paint, 1/3 primer

Paint VOC avg 2.36 #/gal, primer avg 5.7 #/gal

Add: 6 gal/mo xylene used in clean up

Annual VOC Emissions

= 740 x .67 x 2.36 + 740 x .33 x 5.7

+ 6*7.1*12 = 3073 lbs/yr = 1.54 tons/yr

Short term VOC emissions: Based on 2 airless guns

Painting 5 gal/hr each (1 primer, 1 topcoat). Av

VOC = 4 lbs/gal. Each gun puts out VOC = 20 lbs/hr.

Assume 90 % evaporates onsite. VOC emission rate

for each gun = 18 lbs/hr.

Estimated distribution:

Mixed C8 aromatics 90 %

Other solvents 10 %

Including: (each <2%)

Ethanol

Toluene

Methylethylketone

n-Butanol

Propylene glycol monomethylether

Methylisoamyl ketone

High flash naphtha

High flash aromatic naphtha

i-Butanol

n-Butyl acetate

001212

15' 5" gun
11' 2" gun
4030 gal
29.5 lb VOC
from primer
2nd gun
11.8 lb VOC
from paint

TABLE 6
BOILERS AND HEATERS

| | | | | | |
|----------------------------------------------|---------------------------------------------------------|-----------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------|
| Type of Device: Package Steam Boiler, 125 HP | | | | Manufacturer: | |
| Number from flow diagram: H-1 | | | | Model Number: | |
| CHARACTERISTICS OF INPUT | | | | | |
| Type Fuel | Chemical Composition (% by Weight) | | Inlet Air Temp °F (after preheat) | Fuel Flow Rate (scfm* or lb/hr) | |
| Propane | C ₆ H ₈ | 100% | Ambient | Average 87 #/hr | Design Maximum 188 #/hr |
| | | | Gross Heating Value of Fuel | Total Air Supplied and Excess Air | |
| | | | (specify units) 21490 BTU/LB Liq. | Average 469 scfm* 50 % excess (vol) | Design Maximum 1013 scfm* 50 % excess (vol) |
| HEAT TRANSFER MEDIUM | | | | | |
| Type Transfer Medium | Temperature °F | | Pressure (psia) | | Flow Rate (specify units) lbs/hr |
| (Water, oil, etc.) | Input | Output | Input | Output | Average Design Maxim |
| Water | 70 | 3 | 14.7 | 125 | 2000 4313 |
| OPERATING CHARACTERISTICS | | | | | |
| Ave. Fire Box Temp. at max. firing rate | Fire Box Volume(ft. ³), (from drawing) | | Gas Velocity in Fire Box (ft/sec) at max firing rate | | Residence Time in Fire Box at max firing rate (sec) |
| 1500°F | 250 | | 1.15 | | 4.3 |
| STACK PARAMETERS | | | | | |
| Stack Diameters | Stack Height | Stack Gas Velocity (ft/sec) | | Stack Gas | Exhaust |
| 12" | 12' | (@Ave. Fuel Flow Rate) | (@Max. Fuel Flow Rate) | Temp °F | scfm |
| | | 87 #/HR | 188 #/HR | 500 | 373 |
| CHARACTERISTICS OF OUTPUT | | | | | |
| Material | Chemical Composition of Exit Gas Released (% by Volume) | | | | |
| | CO ₂ | 6.6 | A | 1.0 | |
| | H ₂ O | 12.4 | O ₂ | 7.0 | |
| | N ₂ | 73.0 | | | |
| | 100.0 % | | | | |

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

*Standard Conditions: 70°F, 14.7 psia

001213

08/93

EPA STORAGE TANK LOSS CALCULATION PROGRAM from AP-42, 4th Ed. 9/85
Including API 2517 2/89, AP42-4B vers 2.0, Copyright (c) 1991, by H.M.Walker

NAME: H.M. WALKER

CASE RUN: 04-25-1994 AT: 00:10:30

CASE TITLE: HERCULES RECOVERED PRODUCT TANK GROUP

STORAGE TANK SUMMARY :

| | | |
|-------------------------------|------------|-----------|
| (1) ROOF TYPE | - FIXED | |
| (2) DIAMETER | - 48.42 | FEET |
| (3) CAPACITY | - 55100 | GALLONS |
| | - 1311.905 | BARRELS |
| (4) AVERAGE TURNOVERS | - 1.75 | (ANNUAL) |
| (5) TEMP. INCR. (DEG F) | - 0 | () |
| (6) AVERAGE OUTAGE | - 4 | FEET |
| (7) TANK PAINT FACTOR | - 1.4 | F(P) |
| (8) FIXED ROOF LIQUID FACTORS | - 1 | BREATHING |
| | - 1 | WORKING |

LIQUID DATA SUMMARY:

| | | |
|-------------------------|----------------|-------------------------|
| (1) LIQUID TYPE | - VOL.ORG.LIQ. | |
| (2) TRUE VAPOR PRESSURE | - 1.700 | PSIA |
| (3) DENSITY | - 7.00 | LB/GAL or 37.09 DEG API |
| (4) MOLECULAR WEIGHT | - 60.00 | LB/LB MOL |

METEOROLOGICAL DATA SUMMARY:

FOR: GALVESTON, TX

| | | |
|-------------------------------|--------|-------|
| (1) AVERAGE DAILY TEMP CHANGE | - 9.5 | DEG F |
| (2) AVERAGE ANNUAL TEMP | - 69.8 | DEG F |
| (3) AVERAGE WIND VELOCITY | - NA | MPH |
| (4) AVERAGE STATION PRESSURE | - 14.7 | PSIA |

EVAPORATIVE EMISSIONS SUMMARY:

| TYPE EMISSION | LBS/HR | LBS/YR | TONS/YR |
|--------------------------------|--------|--------|---------|
| (1) FIXED ROOF- BREATHING LOSS | 0.279 | 2447. | 1.223 |
| (2) FIXED ROOF- WORKING LOSS | 0.027 | 236. | 0.118 |
| ---> FIXED ROOF TOTAL LOSS | 0.306 | 2683. | 1.341 |

Carbon efficiency 99%

So: $.01 \times 2683 = 26.83 \text{ \# / yr}$

group total emissions.

001214

TABLE 30

CERTIFICATION OF ESTIMATED CAPITAL COST AND PERMIT APPLICATION FEE
Regulation VI, Rule 116.141

Include estimated cost of the equipment and services that would normally be capitalized according to standard and generally accepted corporate financing and accounting procedures.

Estimated Capital CostDIRECT COSTS

Process and control equipment not previously owned by the applicant and permitted in Texas \$ _____

Auxiliary equipment, including exhaust hoods, ducting, fans, pumps, piping, conveyors, stacks, storage tanks, waste disposal facilities, and air pollution control equipment specifically needed to meet permit and regulation requirements _____

Freight charges _____

Site preparation (including demolition), construction of fences, outdoor lighting, road and parking areas _____

Installation (including foundations), erection of supporting structures, enclosures or weather protection, insulation and painting, utilities and connections, process integration and process control equipment _____

Auxiliary buildings, including materials storage, employee facilities, and changes to existing structures _____

Ambient air monitoring network _____

INDIRECT COSTS

Final engineering design and supervision and administrative overhead _____

Construction expense (including construction liaison), securing local building permits, insurance, temporary construction facilities and construction clean-up _____

Contractor's fee and overhead _____

TOTAL ESTIMATED CAPITAL COST = < \$ 300,000

I certify that the total estimated capital cost of the project as defined in Texas Natural Resource Conservation Commission Rule 116.141 is equal to or less than the above figure.

Signed by: Thomas E. H.

Title: Vice President - Opr.

Company: Hercules Offshore

Date: 6/3/96

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| Estimated Capital Cost | Permit Application Fee | PSD Application Fee |
|---------------------------|------------------------|------------------------|
| Less than \$300,000 | \$450 (minimum fee) | \$1,500 (minimum fee) |
| \$300,000 to \$50,000,000 | 0.15% of capital cost | - - - - - |
| \$300,000 to \$15,000,000 | - - - - - | 0.5% of capital cost |
| Greater than \$50,000,000 | \$75,000 (maximum fee) | - - - - - |
| Greater than \$15,000,000 | - - - - - | \$75,000 (maximum fee) |

PERMIT APPLICATION FEE (from table above) = \$ 450.00

001215

Rev. 09/30/93

TABLE 2
MATERIAL BALANCE

This material balance table is used to quantify possible emissions of air contaminants and special emphasis should be placed on potential air contaminants, for example: If feed contains sulfur, show distribution to all products. Please relate each material (or group of materials) listed to its respective location in the process flow diagram by assigning point numbers (taken from the flow diagram) to each material.

| LIST EVERY MATERIAL INVOLVED IN EACH OF THE FOLLOWING GROUPS | Point No. from Flow Diagram | Process Rate (lbs/hr or SCFM) standard conditions: 70°F 14.7 PSIA. Check appropriate column at right for each process. | Measurement | Estimation | Calculation |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|
| | | | | | |
| 1. Raw Materials - Input Barge Vapors - VOC Barge Liquids - VOC Paint + Solvents Black Beauty Sand | | 6727 #/month 96425 gallons/yr 740 gallons/month 3350 Tons/year | | | |
| 2. Fuels - Input Propane - Combustor Propane - Boiler | | 6798 gallons/month 1080 gallons/month | | | |
| 3. Products & By-Products - Output Flue gas - combustor Flue gas - Boiler | | } Remainder | | | |
| 4. Solid Wastes - Output Waste Blasting Sand | | 3348 Tons/yr | | | |
| 5. Liquid Wastes - Output | | | | | |
| 6. Airborne Waste (Solid) - Output | | | | | |
| 7. Airborne Wastes (Gaseous) - Output Combustor Stack VOC Tank Vapors (from C canister) Paint Solvents PM10 - Sand blasting | | < 673 #/month 27 #/yr 256 #/MO 2.1 Tons/yr | | | |

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JUN 04 1996

PERMITS PROGRAM

STATEMENT OF REGULATORY COMPLIANCE

General Rules:

The facility will be operated in accordance with the General Rules relating to circumvention nuisance, notification requirements for major upset, sampling, emissions inventory requirements, sampling procedures and terminology, compliance with EPA standards, NAAQS, inspection fees, emission fees and all other applicable General Rules.

Regulation I: The operation of this facility may result in occasional visible emissions but not in excess of the opacity limits specified in Reg I.

Regulation II: Sulfur compounds are not present in any raw material, fuel, or any barge to be cleaned. Therefore Reg II is not applicable.

Regulation III: No compounds of beryllium, inorganic fluorine, or lead are in any way involved with the operations of Hercules. Therefore Reg III does not apply.

Regulation IV: All motor vehicles owned or operated by applicant will comply with the applicable provisions of this regulation.

Regulation V: The proposed facility is located in Brazoria County and is regulated by the following:

Sections 115.112-.119 concerning VOC storage

All VOC tanks have submerged fill pipes and vent through a carbon canister vent control system.

Sections 115.421-.429 concerning surface coating operations

Surface coating operations are mainly on the exterior of marine vessels hence are exempted from the specific VOC content limits of 115.421 (a)(9) by 115.427 (D).

Sections 115.352-.359 concerning fugitive emissions

Since Hercules has <250 components in VOC service it is exempt under 115.357 (7).

Sections 115.541-.549 concerning barge degassing and cleaning.

Section 115.549 concerning compliance schedules provides that compliance with 115.541 &ff will not be required until 11/15/96. This provision was inserted to permit the industry time to develop safe techniques to meet this difficult, dangerous abatement requirement. Hercules believes that it will be the first in the industry to go to the field with a full scale combustor for barge vapors. Because such a program suffers delays, frequent need for equipment modification, repairs and high fuel

costs; Hercules needs the flexibility to operate under Section 115 as current until 11/15/94. This is so because it will be unable to secure economic relief via higher customer charges until all of its competitors come under the same requirements after 11/15/94.

Regulation VII: The only possible sources of NOx on the property are a propane-fired 125 HP boiler and the propane-fired combustor. Both operate at temperatures well below the range of significant NOx generation and operate for only a few hours/year. The estimated total emissions for the two are <0.5 tons/yr.

Regulation IX: The proposed facility will not emit a significant quantity of CO from either of its two combustion units.

Regulation XI: The proposed facility is not a hazardous waste or solid waste management facility. Therefore Reg. XI does not apply.

Impact on Schools: There are no schools within 3000 feet of the proposed facility.

Rule 116.111 (2): Measurement of emissions

If measurement of emissions from the combustor is required by TNRCC, Hercules will make such a measurement. Since the stack will be at 1400 ° F with a very high velocity special techniques will be required to make such a measurement.

Rule 116.111 (3) BACT

Please refer to section IV.D of this application.

Rule 116.111 (4) NSPS

NSPS is not applicable to this facility.

Rule 116.111 (5) NESHAP

The emissions from the proposed facility will meet the requirements of all applicable NESHAP as listed under 40 CFR Part 61. Benzene is the only such material which might be handled. Hercules will demonstrate that the combustor will achieve 98% reduction when processing benzene containing barge vapors which fall under the NESHAP requirements.

Rule 116.111 (6) Performance

The facility will perform as represented in the permit application with respect to all matters of atmospheric emissions. Hercules will so demonstrate if required to do so.

Rule 116.111 (7) Nonattainment Review

This requirement is not applicable since actions taken under this permit will result in a large reduction in atmospheric emissions of all types. This is particularly true of VOC emissions from barge degassing vapors which will be reduced by at least 90% when burned in the combustor.

Rule 116.111 (8) PSD Review

Brazoria County is in an attainment area for PM10 and NOx. Hercules is not a major source of either pollutant. Therefore a PSD review is not required.

Rule 116.111 (9) Air Dispersion Modeling

Hercules will furnish modeling results as required by TNRCC after an official modeling conference is completed.

deficiency for Hercul

MSDS for each compound used
including sand, Black Beauty sand,
and the paint used;

Please use units when calculating
emissions so I can understand

I did not see BAET for
sand blasting. It includes:

1. no use of silica sand
- and 2. a shroud 15' higher than
the item being sand blasted.

```
*****
* User Name: JHS1 (149) Queue: NSR/254E_4MP *
* File Name: Server: NPS_121951 *
* Directory: Copy: 1 of 1 *
* Description: C:\WINDOWS\INTERPAP.WPD *
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2 Carbon canister system
we prefer 3. Can
a 3rd be installed?

Need to use

How are vapor from carbon canisters checked to ensure breakthrough has not occurred.

Emissions from carbon canisters should be based on breakthrough definition of 100ppmv.

- fugitives not calculated
need this info

- program 607
fugitives?

- any tank truck loading
on facility?
Not rep in Table 1a

Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
BARGE CLEANING & REPAIR
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide calculations for the degassing of barges. These emissions need to be modeled to assess the on-shore impacts. *Specific emissions from carbon canisters for each compound*
Provide emission rates as EPN
2. Provide a chemical list of all of the compounds that the barges will contain before being cleaned. This list will be included with the permit.
3. Provide calculations for the carbon absorption system. Standardization packages for Abrasive Blast Cleaning, Spray Painting and Dip Coating Operations, and Absorption Units are included with this letter. Calculation methods can be found in these packages. Update the Table 1a with these emissions. *on Table 1a*

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these

representations require prior authorization from the Texas Natural Resource Conservation Commission.

Failure to submit all the requested information within 30 days of the date of this letter may result in the administrative voidance of your application. Following an administrative voidance, your application and supporting data, as well as any fees submitted, will be retained for 180 days. To reactivate the voided application, a new PI-1 application form and all the information requested above will be required. Additional fees need not be submitted if the project scope has not increased and the original fee was correct. If all these conditions are not satisfied within 180 days from the date of the voidance, your application will automatically be denied and the entire application, including the appropriate fee, must be resubmitted if you desire to pursue the project.

Thomas E. Hord
Page 2

Re: Permit No. 32768

Thank you for your cooperation in this matter. If you have questions concerning the review or this notice, please contact me at (512) 239-1372.

Sincerely,

Katherine C. Hauer
Chemical Section
New Source Review Division

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Rob Barrett, Director, Harris County Pollution Control Department, Pasadena
Dr. H. M. Walker, H. M. Walker & Associates, Inc., Houston

KH/

Record No. 43911

001223

Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Permit Application
Permit No. 32768
BARGE CLEANING & REPAIR
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This will acknowledge receipt of your application for the above-referenced permit. We have determined that your application is deficient, and additional information is needed to enable us to continue with our review. Please furnish the information indicated as follows:

1. Provide calculations for the degassing of barges. Speciate emissions from the combustor for each compound. Provide emission rates on Table 1a. These emissions need to be modeled to assess the on-shore impacts.
2. Provide a chemical list of all of the compounds that the barges will contain before being cleaned. This list will be included with the permit.
3. Provide calculations for the carbon adsorption system. Standardization packages for ~~Abrasive Blast Cleaning, Spray Painting and Dip Coating Operations, Equipment Leak Fugitives, and Carbon Adsorption Systems~~ are included with this letter. Calculation methods can be found in these packages. Update the Table 1a with these emissions.
4. How are the vapors from the carbon canisters checked to ensure breakthrough has not occurred? Emissions from carbon canisters should be based on a breakthrough definition of 100 ppmv. Emission calculations can be found in the Carbon Adsorption Systems Standardization Package. Include ~~these~~ emissions on the Table 1a.

Speciated

001224

5. The carbons adsorption system represented in the application consists of two carbon canisters. This system is appropriate for controlling no more than two compounds at a time. For venting three or more compounds at a time, a minimum of three carbon canisters connected in series is required. Describe the emissions that will be vented to the carbon adsorption system.
6. The fugitive emissions are not represented in this application. Calculate the fugitive emissions according to the appropriate monitoring program found in the Equipment Leak Fugitives Standardization Package. Include these emissions on the Table 1a.
7. There are no tank truck emissions for the recovered materials listed on the Table 1a. Explain the tank truck loading operations including the type of truck and type of connection used during the loading operation. The maximum collection efficiency associated with a vacuum truck is 95% depending upon the type of connections used. Provide tank truck loading emissions for this operation. Include these emissions on the Table 1a.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will communicate that need as soon as possible. You are reminded that 30 TAC Section 116.116(a) (Regulation VI) states that all representations made in a permit application become conditions upon which a permit is issued. Any variations from these representations require prior authorization from the Texas Natural Resource Conservation Commission.

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Thomas E. Hord
Page 2

Re: Permit No. 32768

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Sincerely,

Katherine C. Hauer
Chemical Section
New Source Review Division

001225

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Rob Barrett, Director, Harris County Pollution Control Department, Pasadena
Dr. H. M. Walker, H. M. Walker & Associates, Inc., Houston

KH/

Record No. 43911

001226